1822

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1823

X Sections Dredger Decmp Oct 4/10 2

Month of September 1910. {Dredger San. Francisco.

605	25.155		17.3	21.0	23.4	23.3	20.5	20.0	15.7	9.9	8.0	6.7	
			-7.8	-4.1	-1.5	-1.8	-4.6	-5.1	-9.4	-15.2	-17.1	-18.6	
			39.	35.	17.	7.	4.		18.	28.	39.	44.	
606	25.143		14.5	21.2	22.8	20.3	17.6	16.1	14.3	11.6	9.0	5.1	2.7
			-8.5	-3.9	-2.3	-4.8	-7.5	-9.0	-10.9	-13.5	-17.1	-19.0	-20.4
			30.	23.	19.	11.	6.		8.	24.	40.	46.	39.
607	25.131				21.1	22.4	19.5	17.4	14.5	11.7	7.3	5.7	
					-4.1	-2.7	-5.6	-7.7	-10.6	-13.4	-17.8	-19.8	
					24.	13.	6.		7.	30.	40.	43.	
608	25.119				21.7	20.3	19.3	15.5	12.6	9.1	6.9	6.0	5.7
					-3.3	-2.8	-5.8	-9.6	-12.5	-16.0	-18.7	-19.1	-20.0
					21.	19.	11.		12	26.	39.	54.	55.
609	25.107			20.3	21.9	22.2	17.1	16.4	14.1	12.1	8.6	5.6	
				-4.8	-3.2	-2.9	-8.0	-8.7	-11.0	-13.0	-16.5	-19.5	
				32	29.	24.	18.	7.		12.	31	36.	
610	25.095				21.1	22.6	23.7	21.4	17.2	15.3	14.1	8.2	7.2
					-4.0	-1.5	-1.4	-3.7	-5.9	-8.8	-11.0	-16.7	-17.5
					41.	36.	26.	19.	13.		9.	40.	41.
611	25.083		22.7	24.2	24.8	22.4	20.4	16.8	15.3	13.4	7.5	6.5	
			-2.4	-0.9	-0.3	-2.7	-4.7	-8.3	-9.8	-11.7	-17.6	-18.6	
			19.	47.	29.	18.	15.	5.		8.	51.	52	
612	25.071			24.3	23.1	21.1	16.8	14.9	14.1	11.9	10.1	5.2	5.7
				-0.6	0.0	-4.0	-8.3	-10.2	-11.0	-13.2	-15.0	-15.9	-19.2
				50.	42.	35.	21.	11.		10.	29.	63.	71
613	25.059			22.9	25.1	19.9	17.9	15.1	14.0	11.5	10.5	9.6	7.4
				-2.2	0.0	-5.2	-7.2	-10.0	-11.1	-13.6	-14.6	-15.5	-17.7
				64.	55.	42.	34.	12.		7.	13.	35.	47.
614	25.047		20.2	21.8	24.1	24.8	19.0	16.4	12.4	11.7	10.2	7.3	6.6
			-4.8	-4.0	-1.0	-0.2	-6.0	-8.6	-12.6	-13.0	-14.8	-16.7	-18.4
			100.	95	85.	70.	52.	39.	10.		24.	52.	64.
615	25.036		21.6	24.7	25.6	23.2	20.7	14.4	11.5		9.6	7.	6.4
			-3.4	-0.3	+0.6	-1.8	-4.3	-10.6	-13.5		-15.4	-16.0	-18.6
			105.	90	80.	71.	64.	19.			49.	60.	70.
616	25.024						23.8	22.9	17.6	15.6	14.4	12.2	11.
							-1.2	-2.1	-5.4	-7.4	-10.6	-12.8	-14.0
							49.	39.	21.		7.	24.	25.

18241

X Sections Dredger Dumps.

Month of September 1910. {Dredger Neptune

Oct 5/10. 3.

Sta	Grade	Last Readings on Left of each "X" Sec:
517	26.202	20.4 22.4 20.9 18.3 12.7 8.6 6.2 ft -5.8 -3.8 -5.3 -7.9 -10.5 -17.6 -20.1 22. 14. 8. 12. 35. 51
518	26.190	18.2 21.1 21.4 18.4 16.3 12.4 8.6 6.3 ft -8.0 -5.1 -4.8 -7.8 -9.9 -13.8 -17.6 -19.9 28. 21. 17. 9. 18. 37. 46.
519	26.178	18.7 24.0 24.0 21.6 19.3 16.5 11.9 8.7 6.7 ft -7.5 -2.2 -2.2 -4.6 -6.9 -9.7 -14.3 -17.3 -19.5 28. 19. 10. 7. 10. 28. 55. 60.
520	26.167	17.7 20.9 17.7 14.6 12.7 9.9 9.0 6.0 ft -8.5 -5.3 -8.5 -11.8 -13.5 -16.3 -17.7 -20.2 75. 10. 13. 23. 37. 56. 62.
521	26.156	18.2 21.1 23.3 22.2 16.2 14.9 11.5 8.5 6.2 ft -8.0 -5.1 -2.9 -6.0 -10.0 -11.3 -14.7 -17.7 -20.0 26. 16. 5. 8. 16. 28. 57. 64
522	26.143	✓ 20.6 23.6 23.2 17.1 12.2 9.4 7.3 6.0 ft -5.5 -3.5 -2.9 -9.0 -13.9 -16.5 -18.8 -20.1 15. 6. 6. 24. 47. 56. 57.
523	26.131	✓ 19.5 23.5 23.5 21.0 14.6 10.7 7.1 4.6 ft -6.6 -2.6 -2.6 -5.1 -11.5 -15.4 -18.5 -21.5 25. 18. 10. 16. 30. 60. 69
524	26.119	✓ 19.5 22.8 24.7 21.6 14.9 10.6 6.9 4.3 ft -6.6 -3.3 -1.7 -4.5 -11.2 -15.5 -19.2 -21.8 24. 17. 10. 19. 41. 67. 71.
525	26.107	✓ 18.0 21.4 23.4 19.3 16.8 12.9 7.8 7.0 4.1 ft -8.1 -4.7 -2.7 -6.8 -9.3 -13.2 -16.3 -19.1 -21.0 27. 21. 12. 7. 17. 46. 49. 52.
526	26.095	✓ 20.6 23.1 22.9 18.7 16.6 13.3 6.1 6.2 4.7 ft -5.5 -4.0 -5.2 -7.4 -9.5 -13.8 -18.0 -19.9 -21.4 24. 14. 7. 6 17. 30. 42. 43
527	26.083	✓ 22.2 21.1 18.7 15.9 14.2 10.7 9.2 6.1 4.2 ft -4.9 -5.0 -7.4 -10.3 -11.7 -15.2 -16.9 -20.0 -21.8 24. 19. 8. 5. 16. 24. 67. 70
528	26.071	✓ 19.6 21.9 19.1 16.8 14.2 10.0 7.1 ft -6.2 -4.2 -7.0 -9.3 -11.9 -16.1 -19.0 17. 10. 6 17. 32. 37.5
528+50	26.065	✓ Orig: X Sec:

1825

Sta:

X Sections Dredger Dump:
Month of September 1910.

Od 5/10 4.
{ Dredger
Neptune

18261

505	26.345				18.0	17.7	15.4	8.7	5.8	
					-8.3	-8.6	-11.7	-17.6	-20.5	
					8.		16.	31.	40.	
506	26.333			14.2	19.0	18.7	17.4	14.2	10.0	4.3
				-7.1	-7.8	-7.6	-8.9	-12.1	-16.3	-20.0 -21.3
				27.	20.	8.		4.	21.	41. 48.
507	26.321			18.2	19.2	18.8	16.2	12.9	7.5	7.0
				-8.1	-7.1	-7.5	-10.1	-13.4	18.8	-19.3 -21.5
				19.	17.	9.		12.	39.	56. 61.
508	26.309			18.2	20.2	21.1	17.5	13.5	7.4	6.9
				-7.1	-6.1	-5.2	-7.8	-12.8	-16.9	-19.4 -21.0
				24.	20.	4.		15.	30.	32. 56.
509	26.297			19.4	21.2	21.1	19.5	13.5	10.5	7.9 6.6
				-6.9	-5.1	-5.2	-6.8	-12.8	-15.8	-18.4 -19.7
				28.	26.	7.		17.	42.	65. 67
510	26.285		20.1	22.1	22.7	20.5	17.4	14.0	11.1	7.2 7.9
			-6.2	-4.2	-3.6	-5.8	-8.9	-12.3	-15.2	-19.1 -18.4
			32.	18.	17.	13.		16.	41.	58. 62.
511.	26.273		18.9	22.6	23.1	21.8	17.9	17.2	13.9	
			-7.4	-8.7	-3.2	-4.5	-8.9	-12.1	-15.0	
511+50	26.267		36.	25.	17.	14.		14.	22.	
512	26.261			20.9	21.9	19.0	14.3	11.7	10.7	
				-5.2	-4.4	-7.3	-12.0	14.6	-16.1	-17.5
				23.	13.	4.		17.	32.	35.
513	26.249			19.6	22.7	21.8	18.4	14.6	10.5	7.7
				-5.7	-3.6	-4.5	-7.9	-11.7	-15.8	-19.1
				31.	22.	14.		8.	43.	49.
514	26.237		20.8	23.1	23.4	20.6	17.7	15.4	12.2	8.8
			-5.4	-3.1	-2.8	-5.6	-8.5	-10.8	-15.0	-17.4
			35.	26.	15.	12.		12.	32.	41.
515	26.226		21.1	22.1	23.2	20.6	17.4	13.4	8.1	6.7
			-5.1	-4.1	-3.0	-5.6	-7.8	-12.8	-17.1	-19.2
			30.	27.	19.	14.		26.	57.	61
516	26.214			17.4	20.8	22.4	19.4	15.3	14.3	8.9 7.2 5.7
				-6.8	-5.4	-3.8	-6.8	-7.9	-11.9	-17.3 -19.0 -20.3
				26.	21.	14.	8.		15.	53. 53. 58

St 2:

X Section at 6+49. ℄
Line of Bridge

East Side (cont'd)

0 + 60	
0 + 70	-1.8
0 + 90	-7.5
1 + 10	-8.6
1 + 20	-8.3
	-5.3
1 + 25	
1 + 30	-1.1
1 + 34	+ 3.2 Br. in cut
1 + 36	5.1
	8.4
1 + 50	
	10.2
1 + 75	
	9.3
2	
+ 15	11.4
	8.0
2 + 50	
	7.3
3.	
	6.9
3 + 50	
	6.7

1827

S 1/2

X Section at 679+49

Xing on Johnston Estate

May 20/11

4.

1828

West Side

		El.				
1+25		14.5 18.	25.8	15.6 3.	14.9 7.	11.4 17.
1+00		18.0 30.	16.4 10.	17.0	16.5 9.	9.9 30.
0+75		10.1 40.	10.9 31.	13.9 18.	18.8 5.	18.7 18.4 13. 9.7 37.
0+50	18° Left.	10.9 44.	10.8 34.	15.9 24.	16.2 12.	20.9 7.5 21.1 21.1 8. 18.7 33. 11.8 40.
0+18						
679+49	R Xing (6°R) — This means an Angle of 96°00' Rt			32.5 7.5	24.1 24.3	23.7 21.0 2.5 12.
0+00						

East Side (Line of Bridge)

		El.
679+49	90°	
0+00		24.3
0+15		24.1
0+25		19.6
0+34		16.4
0+45		10.6
0+49		9.6
0+51		5.6
0+55		3.7 Surface Water in Cut

Sta.	Grade Elev	L.	C.	R.
471	26.750	10.6 14.5 20.0 26.7 26.7 26.7 22.7 -16.1 -12.7 -6.7 0.0 0.0 0.0 -4.0 33.2 28. 19. 9. 9. 15.0		
470	26.762	14.0 14.6 16.5 16.8 26.8 26.8 26.8 -12.8 -12.2 -10.3 -10.0 0.0 0.0 28.2 25. 24. 21.0 10. 10.0		
469	26.774	15.3 16.5 20.5 26.5 26.8 26.8 18.8 -11.5 -10.3 -6.3 -0.3 0.0 0.0 -8.0 26.2 23. 17.5 10. 9. 21.0		
468 + 50	26.780	14.6 16.2 26.3 26.8 25.5 17.4 15.4 -12.7 -10.6 -0.5 0.0 -1.3 -9.4 -11.4 27.3 22. 10. 10. 21.5 26.1		
468	26.786	26.8 26.8 26.8 0.0 0.0 0.0 10. 10.0		

+ 1110.0 -

For Final Borrowpit Cross Sections, see page 14.

X Sections of Embankment Sta. 468 - 501 for estimate of material to complete to grade. (Slopes leached.)

Platted 3/7/11

This Embankment as above indicated was completed by Train Haul. Final for Dredgers.
Statement by B. Wheeler.

1826

Sta:	Grade Elev.	L.	C.	R.
478	26.666	9.1 11.4 13.7 14.3 25.4 25.6 26.2 26.3 26.7 -14.3 -15.3 -13.0 -12.1 -1.3 -1.1 -0.5 -0.4 0.0 33.0 28. 24.5 21.5 11. 9.5 8.5 10.0	
+ 50	26.672	10.1 10.9 14.4 22.4 25.8 26.1 26.3 -16.4 -15.8 -12.3 -3.3 -0.7 -0.6 -0.4 33.9 28. 22. 12.4 10. 10.6	
477	26.678	14.7 15.6 24.3 25.6 26.0 25.9 25.7 -12.0 -11.1 -2.4 -1.1 -0.7 -0.8 -1.0 27.0 24. 17. 10. 10. 10.5	
476 + 50 C.C	26.684	15.1 15.3 17.1 25.7 25.9 25.9 25.7 22.0 -11.6 -11.4 -9.6 -1.0 -0.8 -0.8 -1.0 -4.7 26.4 22. 23. 13.5 10. 10. 16.0	
475 + 60	26.695	14.0 14.3 22.7 26.0 26.4 26.1 25.8 24.8 19.7 18.3 -12.7 -12.4 -4.0 -0.7 -0.3 -0.6 -0.9 -1.9 -7.0 -8.4 28.0 25. 18. 13.5 10. 7 10. 18. 21.6	
475 13. C	26.702	14.3 15.4 21.4 26.7 26.7 26.1 24.8 19.7 18.1 -12.4 -11.7 -5.3 0.0 0.0 -0.6 -2.4 -7.0 -8.6 27.6 25. 20. 10. 7. 10. 16. 21.9	
		-0.0114	
474	26.714	14.5 15.3 23.4 25.6 26.7 26.7 26.2 22.6 16.8 15.7 13.5 -12.2 -11.4 -3.7 -1.1 0.0 0.0 -0.5 -4.1 -9.9 -11.0 -13.2 27.3 23. 16. 10.6 9. 5. 10. 19.5 20. 28.8	
473	26.726	13.8 15.3 20.0 21.1 26.7 26.7 26.7 24.3 18.5 -12.9 -11.4 -6.7 -5.3 0.0 0.0 0.0 -2.4 -8.2 28.4 23.5 20.0 17.0 9. 6. 10. 21.3	
472	26.738	10.8 12.2 16.1 23.0 26.7 26.7 26.7 23.8 17.7 15.2 -15.9 -14.2 -10.6 -3.7 0.0 0.0 0.0 -2.9 -9.0 -11.5 32.9 28. 22. 16. 10. 6. 10. 19. 26.0	

Plotted 3/6/11

1830

Sta:	Grade Elev	L.	℄	R.
484 + 24.5	26.592	9.0 -17.6 35.4	14.9 17.0 23.9 23.0 24.0 27.9 13.5 9.3 -11.7 -9.6 -2.7 -3.6 -5.6 -9.7 -12.8 -14.8 -19.3 22. 16. 10. 5.5 10. 24. 27. 38.0	
483 + 94.5	26.595	9.6 -17.0 34.5	14.5 15.3 17.4 22.7 24.0 23.2 23.9 21.8 13.7 11.7 9.1 -12.1 -11.3 -9.3 -3.9 -2.6 -3.4 -5.7 -9.8 -12.9 -14.9 -18.0 -21.2 23.5 24. 17. 10. 8. 7.5 10. 25. 27. 35. 42.8
482	EB. 26.619	10.8 -15.8 32.7	11.2 13.8 14.3 20.0 23.2 24.2 22.9 18.6 14.6 13.5 -15.4 -12.8 -12.3 -6.6 -3.4 -2.4 -3.7 -8.0 -12.0 -13.1 29.5 25.5 21.0. 16. 10. 10. 15.5 20.5 28.6
481 + 50	26.625	13.7 -12.9 28.4	14.4 16.9 21.5 25.6 25.7 26.6 26.6 26.6 25.9 25.2 21.6 -12.3 -9.7 -5.1 -1.0 -0.7 0.0 0.0 0.0 -0.7 -1.4 -5.0 21. 21. 14. 10. 7. 4.0 9.0 8. 10. 16.5
481	26.631	7.8 -18.8 37.7	9.9 11.7 14.6 15.3 22.4 25.0 25.5 26.6 26.6 26.6 25.1 25.2 21.3 -16.7 -14.9 -12.0 -11.3 -4.2 -1.6 -1.1 0.0 0.0 0.0 -1.5 -1.4 -5.3 22.5 29. 21. 19. 14. 10. 6.5 4. 9. 7. 10. 17.0
480 + 50	EC. 26.637	-19.3 38.	7.3 12.5 13.3 14.3 26.0 26.0 26.4 26.1 -14.1 -13.1 -12.2 -0.6 -0.6 -0.2 -0.5 23. 23. 17.5 7. 10. 10.8
479 + 6.0	26.647	10.1 -16.5 32.8	11.5 14.0 14.5 22.0 25.6 26.1 26.1 26.0 -16.1 -12.6 -12.1 -4.6 -1.0 -0.5 -0.5 -0.6 27.5 25.5 23.5 15. 10. 10. 10.9
479	CC. 26.654	-17.5 35.2	9.2 12.3 13.9 14.2 25.7 25.9 26.2 25.4 -14.4 -12.8 -12.5 -1.0 -0.8 -0.5 -1.3 25. 23. 20.5 8. 10. 12.0
478 + 5.0	26.660	10.6 -16.1 33.2	13.5 14.2 22.5 24.0 26.1 26.1 26.2 26.2 -13.2 -12.5 -4.2 -2.7 -0.6 -0.6 -0.5 -0.5 27. 23. 15.5 11. 8.5 10. 10.8

Platted 3/3/11

1831

Sta.	Grade Elev.											
491	26.512	9.7	11.9	13.9	14.5	21.0	21.3	24.4	24.2	16.8		
		-16.6	-14.6	-12.6	-12.0	-5.5	-2.2	-2.1	-2.3	-9.7		
		33.9	26.5	25.	22.	16.	10.		10.	33.6		
490	26.524	10.3	12.1	13.8	15.1	22.7	24.6	24.7	24.6	17.3		
		-16.2	-14.4	-12.7	-11.4	-3.6	-1.9	-1.8	-1.9	-9.7		
		33.0	26.	25.	20.	14.5	10.		10.	33.8		
489+24 E.C.	26.532	10.6	11.4	13.6	14.2	22.8	24.4	23.7	24.7	24.3	23.7	16.8
		-15.9	-15.1	-12.9	-12.3	-3.7	-2.1	-1.8	-1.8	-2.2	-2.8	-9.7
		32.9	30.	27.	24.5	16.	12.5	10.		8.	10.	33.6
488+64	26.540		10.4	11.2	16.5	24.1	24.2	24.2	24.0	23.3	15.9	13.2
			-16.1	-15.3	-10.0	-3.4	-2.3	-2.3	-2.5	-3.2	-10.6	-13.3
			32.2	30.	22.	12.	10.		8.	10.	23.5	29.0
488+04	26.547	11.2	11.5	13.8	14.3	19.2	22.3	22.5	22.7	22.4	14.1	10.4
		-15.3	-15.0	-12.7	-12.7	-7.3	-4.2	-4.0	-3.8	-4.1	-12.4	-16.1
		32.0	31.	27.	25.5	20.	14.	10.		10.	24.5	33.2
487+50	26.553		10.5	10.9	13.1	15.1	19.8	21.4	21.7	21.5	21.2	13.7	10.6	10.2
			-16.1	-15.7	-13.5	-11.2	-6.8	-5.2	-4.9	-5.1	-5.4	-12.9	-16.0	-16.4
			32.2	29.5	27.	14.	10.	8.5		10.	14.	26.	31.	33.6
487	26.559			13.4		14.9	20.5	21.2	21.6	22.1	22.0	17.3	14.5	
				-13.3		-11.7	-6.1	-5.1	-5.0	-4.5	-4.6	-9.2	-12.1	
				28.8		19.	14.5	10.		10.	13.	22.	27.2	
+50	26.565	10.4		10.8	13.4	15.3	22.0	22.5	22.4	22.6	22.4	19.8		
		-16.2		-15.8	-13.2	-11.2	-4.6	-4.1	-4.2	-4.0	-4.2	-7.3		
		33.3		30.5	27.5	20.	14.	10.		10.	12.	20.0		
486	26.571	10.5	11.3	12.9	14.1	16.1	20.4	23.2	23.2	23.0	22.2	17.4	14.5	10.6
		-16.1	-15.3	-13.7	-12.5	-10.5	-6.2	-3.4	-3.4	-3.6	-4.4	-9.2	-12.1	-16.0
		32.2	31.	29.	27.	17.	15	10.		8.	10.	20.	22.5	33.0
+50	26.577	10.0	12.3	14.3	15.9	20.8	23.4	24.3	23.6	23.6	22.9	16.3	14.4	13.6
		-16.6	-14.3	-12.3	-10.7	-5.6	-3.2	-2.3	-3.0	-3.0	-3.7	-10.3	-12.2	-13.0
		33.9	28.	27.5	26.	14.	10.	8.		8.	10.	22.5	24.	28.5
485	26.583	10.0	12.3	14.4	16.7	24.3	24.6	23.6		23.3	22.4	14.2	13.5	9.9
		-16.6	-14.3	-12.2	-9.9	-2.3	-2.0	-3.0		-3.3	-4.2	-12.4	-13.1	-16.7
		33.9	27.	25.	18.	12.5	10.			7.	10.	23.5	26.	34.0
484+54.5	26.588	9.4	12.6	14.1	16.8	23.8	24.3	23.6		23.2	21.9	10.7	7.3	
		-17.2	-14.0	-12.5	-9.8	-2.8	-2.3	-3.0		-3.4	-4.7	-13.9	-17.3	
		34.8	27.	25.	20.	14.	11.5			7.5	10.	26.5	38.0	

Plotted 3/3/11

1832

Sta:	Grade Elev.									
498	26.428	9.0	11.4	13.8	15.3	24.3	25.1	24.8	24.1	15.2
		-17.4	-15.0	-12.6	-11.1	-2.1	-1.3	-1.6	-2.3	-11.7
		35.1	28.	26.	24.5	19.5	10.		10.	25.8
497	26.440	9.2	11.4	13.8	15.0	21.6	24.1	24.4	23.6	12.1
		-17.2	-15.0	-12.6	-11.4	-4.8	-2.3	-2.0	-2.8	-14.3
		34.8	29.5	24.	21.	17.	10.		10.	30.4
496	26.452	9.6	11.7	13.8	14.6	23.8	24.1	24.0	24.0	17.4
		-16.9	-14.8	-12.7	11.9	-2.7	-2.4	-2.5	-3.5	-9.1
		34.4	24.	20.5	18.	10			10.	22.6
495	26.464	9.3	11.9	13.2	14.2	23.7	24.2	24.1	24.0	20.4
		-17.2	-14.6	-13.3	-12.3	-2.8	-2.3	-2.4	-3.5	-6.1
		34.8	26.5	24.5	21.5	12.5	10.		10.	18.2
494	26.476	10.8	12.5	14.1	22.4	24.0	24.3	24.0	23.6	16.4
		-15.7	-14.0	-12.4	-4.1	-2.5	-2.2	-2.5	-2.9	-10.1
		32.6	27.	24.	19.5	14.	10.		10.	24.7
493	26.488	10.5	12.0	14.0	14.3	22.0	24.3	24.0	23.1	13.0
		-16.0	-14.5	-12.4	-12.2	-2.5	-2.2	-2.5	-3.4	-13.5
		33.0	29.5	26.5	23.5	18.5	10.		10.	29.2
492	26.500	10.7	11.5	13.8	14.1	23.5	23.9	24.3	24.0	23.4	16.1
		-15.8	-15.0	-12.7	-12.1	-3.0	-2.6	-2.2	-2.5	-3.1	-10.4
		32.7	30.	26.5	23.5	18.5	10.		7.5	10.	24.6

Platted 3/3/11

+0.110-0

11

1833

1834

| Sta. | Grade Elev. | L. | | |

FINAL X Sects 501 – 534

Nov' 22/11. 13

For Soundings See page 17.

501 + 50		1.9	6.2	9.6	3.52	26.0	26.4	26.4	21.8	7.4	7.3	3.9	3.3	0.8
		34.	30.	44.	15.	11.		10.	20.	48.	60.	86.	87	92.
502		4.2	6.2	8.4	24.9	26.0	26.4	26.4	24.2	20.1	15.2	12.8	11.0	8.4	7.2
		52.	44.	39.	14.	9.		9.	14.	26.	40.	57.	69.	73.	80.
502 + 50		2.0	6.0	8.0	13.4	15.3	17.3	24.3	26.1	26.4	26.4	23.2	13.3	12.3	7.3	7.3	19.7
		100.	109.	85.	63.	53.	29.	15.	10.		9.	21.	40.	47.	56.	75	80.
503		2.5	3.8.	6.9	11.7	13.9	15.1	25.0	26.4	26.4	26.4	24.2	21.6	17.7	10.9	24.7	29.4
		130.	116.	100.	70.	38.	30.	13.	9.		9.	17.	28.	37.	50.	62.	80.
503 + 50		2.4	3.8	4.8	6.3	4.3	7.7	26.0	26.5	26.4	26.4	26.3	24.8	23.3	23.7	22.6	20.6	13.3
		110.	100	87	71.	57.	42.	14.	9.		9.	22.	27.	35.	46.	55.	64	80.

North Arm Trans

Final Cross Sections of Embankment continued on page 46.

1835

1836

Soundings Sta. 467 - -

In Dredger Cut. East. on Tooft

Apr. 9/11

478		SW 5.3	4.1	+0.9	-3.9	-8.4	-12.3	-12.5	-9.9	-5.8	-1.9	+0.4	SW 4.1	6.2	7.3
		132.5	132.5	130	126.	120.	100.	80.	70.	60.	55.	50.	46.	45	40.
477		SW 5.8	4.1	-1.4	-7.0	-9.2	-11.7	-12.5	-10.5	-8.1	-3.9	-1.5	+0.6	SW 4.1	6.7	8.4
		129.	129.	135.	130.	125.	120.	100	80.	70.	60.	55.	50.	44.5	43.	40.
476+50		SW 5.4	4.1	5.0	-3.9	-8.9	-9.9	-13.8	-11.7	-8.7	-3.1	5.0	SW 4.1	6.1	7.6
		137.5	137.5	135.	130.	125.	120.	100.	80.	70.	60.	55.	47.	46.	40.
475+60.		SW. 5.4	5.2	3.0	-2.3	-7.3	-11.3	-15.2	-11.6	-8.8	-3.8	-1.3	1.6	SW 5.2	7.7
		137.	137.	135	130.	125.	120.	100.	80.	70.	60.	55	50.	47.	40.
475			SW. 5.3	4.2	+0.8	-3.0	-8.8	-11.8	-15.3	-12.3	-8.5	-4.5	-0.9	SW 5.2	8.6
			135.	134.	134.	120.	125.	120.	100.	80.	70.	60.	54.	49.	40.
474			SW 5.4	5.2	+1.5	-3.7	-9.8	-11.8	-14.9	-11.8	-8.3	-4.0	-0.4	1.9	SW 5.2	8.8
			138.	138.	135.	130	125.	120.	100.	80.	70.	60.	55.	50.	47.5	40.
473	abt 7"			SW 5.3	4.2	+1.2	-3.6	-12.4	-12.8	-15.8	-13.8	-8.8	-6.0	-3.8	SW 5.2	6.5
				135.	135.	134	130.	125.	120.	100.	80.	70.	65.	60.	54.	50.

472		5.4	+4.7	+0.9	-1.5	-7.3	-13.8	-15.3	-13.8	+10.1	-5.7	-1.8	+0.9	5.5	8.1
		136.	136.	134.	130.	125.	120.	100.	80.	70.	60.	55.	50.	45.	40.
471				5.8	+3.2	-2.8	-4.8	-8.8	-13.3	-16.3	-12.8	-8.3	-3.8	-2.3	+0.0	SW 4.7	6.0	7.7
				140.	140	135.	130.	125.	120.	100.	80.	70.	60.	55.	50.	48.	46.	40.
470		SW 5.9	4.7	+2.1	-0.7	-4.3	-7.7	-13.3	-15.3	-16.3	-11.3	-9.3	-4.3	-0.3	SW 4.7	5.8	8.8
		141.	141.	140.	135	130.	125.	120.	110.	100.	80.	70.	60.	55.	49.5	49.	40.
469	Plotted				SW 6.5	+4.7	0.0	-3.8	-9.1	-12.8	-16.3	-13.8	-8.8	-2.2	1.8	SW 4.7	7.3
					140.	140	137.	130.	125.	110.	100.	80.	70.	60.	55.	52.	50.
468				SW 6.9	4.7	-0.3	-3.2	-11.1	-13.2	-12.3	-10.3	-5.5	-3.3	SW 4.7	5.7	8.0
				138.	138.	135.	130.	120.	110.	100.	80.	70.	65.	58.	56.	50.
467+40				SW 7.4	4.7	+0.7	-4.3	-6.3	-7.3	-7.8	-4.8	-2.1	SW 4.7	7.3	8.8
				128	128	127.	120.	110.	100.	80.	70.	64.	61.	56.	50.
467+23.								Orig X Sec:							

Final Cross-sections, Dredger No 5, Sta. 467+23 to 501.
Authority of Mr. VWheeler.

Sta.

Soundings Sta. 467
in Dredger Cut East on Left.

15
Apr 20/11

Sta.															
489+24		+1.7	-1.1	-9.6	-11.6	-13.1	-15.6	-15.7	-14.6	-11.1	-9.4	-7.1	3.4 SW	6.1	6.9	8.9
		170.	163.	157	155.	150.	140.	120	80.	70.	65.	60.	55.	50.	46.	41.
488+64		-0.2	-7.6	-11.6	-13.1	-15.6	-16.1	-16.5	-16.2	-14.6	-10.8	-7.1	-0.8	3.4 SW	6.6	9.2
		170.	163.	160.	155.	150	140	120.	100.	80.	70.	65.	60.	56.	47.	41.
488+04.		0.0	-1.6	-8.1	-13.1	-15.1	-16.6	-17.1	-17.4	-16.6	-15.7	-9.8	-4.6	-2.6	+1.2	3.4	6.6	9.4
		170.	164.	159	158.	155.	150.	140.	130	120.	100.	80.	70.	65.	60.	55.	46.	42.
487				0.0	-4.4	-14.1	-17.6	-18.4	-17.6	-17.1	-12.0	-6.6	-2.6	3.4 SW	4.9	7.5	9.4
				170.	160.	155.	150	140.	120.	100.	80	70.	60.	54	52.	46.	42.
486			-0.8	-4.1	-9.6	-11.6	-17.1	-17.6	-18.1	-17.8	-15.2	-10.8	-5.8.	0.8	3.4 SW	6.5	9.8
			170	165.	160.	155.	150.	140.	120.	100.	80.	70.	60.	56	52.	45	40.
485			-0.3	-4.3	-9.6	-12.6	-15.6	-17.2	-17.6	-17.7	-17.2	-15.1	-9.8	-8.1	-1.6	3.4 SW	5.9	9.0
			170.	165	160.	157.	150.	140.	130.	120.	100.	80.	70.	65.	60.	54	46.	40.
484+54.5.	+0.7	-1.1	-4.1	-6.5	-9.6	-14.1	-16.0	-17.0	-17.7	-17.2	-17.7	-14.6	-10.1	-7.0	-0.5	3.4 SW	6.5	7.8
	175.	170.	165.	161.	158	150	145	140	130.	120.	100.	80.	70	65	58.	53.	43.	40.

Apr 22/11

483+94.5	+1.4	-0.5	-1.6	-8.3	-11.1	-14.7	-15.6	-16.1	-16.0	-13.4	-9.4	-6.4	0.0	3.4 SW	6.6	7.9
	160.	150.	146.5	143	140.	130.	125	120.	100.	80.	70	65	60.	55.	43.	40.
483						+0.9	-1.9	-4.1	-9.6	-9.6	-9.6	-9.6	-8.4	-3.7	1.9 SW	3.4	3.9
						133.	131.	130.	125	120	100.	90.	80.	73.	65.	47.	40
482						(29	+1.0	-9.5	-8.1	-10.4	-12.0	-8.5	-5.4	-2.8	4.1 SW	7.0	
						137	135	130)	125.	120.	100.	80.	70.	65.	61.	50.	
481				4.6	4.1 SW	0.0	-2.9	-8.1	-12.3	-15.7	-13.0	-9.2	-5.7	-3.1	-1.4	4.1 SW	6.7	
				137.	137.	135.	130.	125.	120.	100.	80.	70.	60.	55.	50.	44.	40.	
480+50				-5.3	4.1 SW	-0.4	-2.7	-10.7	-13.7	-16.0	-14.5	-11.0	-6.4	-4.2	-1.3	+1.1	4.1 SW	
				136.	136.	135	130.	125.	120.	100.	80.	70.	60.	55.	50.	45.	40.	
479+60					4.8	+2.1	-0.9	-6.4	-9.1	-13.9	-12.9	-11.2	-5.9	-2.9	+0.6	4.1 SW	5.2	6.7
					136.	136	130.	125.	120.	100.	80.	70.	60.	55.	50	46	46	40.
479					4.4	+2.0	-1.9	-7.4	-10.5	-14.3	-12.9	-11.2	-6.9	-2.9	0.0	4.1 SW	5.1	6.7
					135.5	135.5	130.	125.	120.	100.	80.	70	60.	55.	50.	47.	47.	40.

Plotted

done 8/11

1837

Sta. Soundings Sta 4.67 - 16.
in Dredger Cut East on Left.
Apr 22/11

502

(over)

501	?	+1.0	-1.6	-3.6	-7.4	-10.1	-14.9	-16.8	-14.7	-9.9	-9.4	-7.1	-3.3	+0	3.4	5.0
		170.	165.	160.	155	150.	140.	120.	100.	80	70.	65.	60.	55.	51.	49.
500.		3.1	-1.1	-2.6	-6.5	-12.6	-15.6	-17.5	-16.4	-12.8	-8.0	-5.7	-3.1	+1.3	SR +3.9	6.5
		164.	158.	155.	150.	143.	140.	130.	100.	80.	70.	65	60.	55	51.	45.
499			3.0	0.0	-3.6	-4.3	-12.6	-16.3	-17.3	-15.4	-12.8	-9.1	-4.3	-1.6	SR 3.4	5.3
			170.	165.	160	157.	147.	140.	120.	100.	80.	70.	60.	55.	48	46
498		+3.0	+0.3	-0.3	-4.6	-6.6	-8.7	-12.1	-15.4	-14.5	-12.1	-9.8	-8.7	-6.4	-1.6	SR 3.4	5.0
		162.	162	160.	155.	150.	147.	140.	120.	100.	80.	70.	65.	60	55.	50.	46.
497		?	+0.4	-1.7	-3.2	-11.6	-14.6	-15.5	-13.1	-11.4	-7.4	-5.6	-2.1	1.3	3.4	4.8	6.9
			170.	165.	159	150	140.	120.	100	80.	70.	65.	60.	55.	52.	50.	46.

Plotted

496	3.6	+1.1	-5.6	-10.4	-12.3	-14.8	-15.7	-12.6	-11.7	-8.6	-6.4	-3.6	1.7	SR 3.4	4.9
	164.	160.	155.	153.	150.	140.	120.	100.	80.	70.	65.	60.	55.	51.	49.
495	+3.9	+1.0	-0.6	-2.6	-10.8	-12.6	-14.9	-14.9	-12.6	-11.3	-8.6	-6.8	-4.6	-0.4	SR 3.4	4.6
	165.	165.	160.	155.	147.	140.	130.	120.	100.	80.	70.	65.	60.	55.	52	52
494	+4.1	+2.7	-1.0	-4.6	-7.1	-10.6	-13.6	-14.1	-12.6	-9.8	-7.1	-4.8	-2.6	0.0	SR. 3.4	6.0
	166.	166.	165.	160	155.	150.	140.	120.	100.	80.	70.	65.	60.	57.	54	50.
493	3.7	+1.0	-1.1	-5.2	-9.6	-12.6	-13.6	-13.6	-9.6	-7.0	-3.6	+0.9	4.2			6.8
	164.	164	160.	155	150.	140.	120.	100.	80.	70.	65.	60.	58.			50.
492	SR 3.4	+1.4	-0.6	-7.1	-8.6	-11.1	-13.7	-14.8	-12.6	-10.6	-8.4	-4.8	-0.4	SR. 3.4		6.4
	172.	170.	166	165	160.	150.	140	120.	100.	80.	70.	65.	60.	56.		50.
491	+3.6	+1.4	-7.7	-8.8	-13.1	-14.8	-14.8	-13.1	-11.6	-9.6	-2.6	SR 3.4	5.3			8.1
	170.	164.	162.	160.	150.	140.	120.	100.	80.	70.	60.	55.	53.			42.
490	+2.2	-6.6	-10.6	-13.1	-15.1	-16.0	-15.1	-12.6	-10.6	-4.6	-0.8	SR. 3.4	4.9			7.4
	170.	164.	156.	150.	140.	120.	100.	80.	70.	60.	55	50.	48.			39

S/2: Final Soundings S/3. 501-504 Nov 23/11

Final Borrowpit X Sections continued in Final X Section Book No 2, page 3.

503+50 For X Sec see page 13.

+1.8 0.0 -2.6 -5.8 -4.5 -4.9 -9.7 -8.4 -8.7 -9.1 -4.2 -0.5 +4.5 Sd
216. 210. 200. 190. 180. 170. 160. 150. 140. 130. 120. 114.

503

+2.0 0.0 -2.7 -7.0 -9.5 -13.0 -14.6 -11.1 -4.9 -2.5 +1.5 Sd
218. 210. 200. 190. 180 170. 160 150. 145 138.

502+50

+1.9 -0.8 -1.5 -12.3 -15.9 -16.5 -16.7 -24.0 -17.5 -15.5 -8.5 -2.5 +1.5 Sd
219. 215 210. 200. 190. 180. 170. 160. 150. 140. 130. 122.

502

-12.5 -11.5 -3.0 0.0 +2.0
210. 205 200. 225 225

-6.5 -14.8 -15.8 -16.5 +16.0 -14.5 -8.8 -4.5 -3.2 -2.3 -1.8 -1.7 -1.7 -2.1 -0.4 +1.5 Cu
200. 190. 180. 170. 160. 150. 140. 130. 120. 110. 100. 90. 80. 70. 60. 57

501+50

+3.3 +1.5 -3.5 -8.7 -11.5 -11.1 -9.0 -8.8 -8.5 -9.5 -8.8 -6.5 -3.6 +1.5 Sd
170. 160 160. 150. 140. 130. 120. 110. 100. 90. 80. 70. 65. 58

1839

Sta.

X Sections of Sink

Sta 502 - 503 + 50

June 19/11

504

24.8

503 + 50

-8.2 -10.0 -19.3 -19.8 -11.2 -4.7
110 120 130. 150 170 Sk 180

-4.0 -1.1 2.7 5.1 5.1 5.4 6.3 8.4 13.0 18.1 20.9 21.4 21.4 22.9 24.7
100 90. 80. 70. 60. 50. 42. 32. 22. 15. 6. 4 10. 24

Tip of Funnel S N diam.

503

< approx >

-1.8 -3.8 -6.4 -7.4 -12.6 -19.0 -20.5 -20.3 -8.6 -7.0
110. 120 Sk 130. 140. 150. 160. 170 180. 190. 200.

4.0 5.4 6.4 6.8 9.2 10.3 12.6 11.8 18.1 17.2 18.9 19.2 19.1 16.9 18.0 14.9 19.1 19.9
100. 93. 90. 80. 69. 54. 38. 27. 16. 9. 4. 4. 11. 18. 31. 43 50.

+ 50

< approx >

-11.4 -20.0 -20.5 -20.1 -21.0 -20.5 -20.4 -19.3 -10.8 -1.8
140. 150. 160. 3K. 170. 180. 190 200. 210. 220.

-4.6 -2.0 0.7 5.4 7.0 7.6 8.9 13.9 17.4 16.5 18.8 19.4 18.9 17.2 16.3 17.4 15.5 12.7 11.7 9.1 11.4
130 120. 110. 96 90 77. 63. 28. 17. 10. 4. 4. 7. 15. 18 29. 38. 46. 58. 74.

502

(approx)

-10.9 -11.0 -16.6 -17.9 -19.5 -20.8 -18.6 -14.1 -13.1 -6.6 -14.0 -3.5 +1.5
120. 130 140. 150. 160. 170 Sk. 180 185 190. 200 210. 220 230

-10.2 -7.8 -6.6 -2.9 -4.4 -2.0 3.4 8.0 18.3 19.4 20.0 20.0 18.7 19.0 17.0 13.0 10.0 7.7 6.5 5.4
110. 100. 90. 80. 70. 60. 50. 40. 24. 4. 4. 10. 18. 26. 36. 55. 66. 73. 74.

501

23.2

1840

Sta: | Grade. | X-sections for Passing Siding C. Sta. 546+60 - 576+60. | R. | 19.

Sta:	Grade.			
554 + 50		0.0 0.0 -12.9 -16.0 -22.0 -23.5 11. 30. 38. 51. 76.2		40'
554 + 84.1	25.752	0.0 0.0 -18.1 -21.6 -23.3 11. 39. 49. 76.0		40'
555 + 44.1		0.0 0.0 -9.4 -16.5 -22.2 -24.0 15. 31. 45. 54. 76.0		40'
556 + 04.1	25.738	0.0 0.0 -2.0 -9.6 -10.8 -15.1 -16.5 16. 31. 38. 37. 43. 47.8	R.R.	23'
556 + 64.1		0.0 0.0 -6.3 -9.0 -12.9 -17.7 -18.6 19. 28. 34. 40. 48. 50.9		
557 + 24.1	25.723	0.0 0.0 -10.6 -17.7 -18.2 14. 30. 45. 50.3		
558	25.714	0.0 0.0 -5.0 -12.4 -14.0 16. 35. 37. 44.0		
+ 50		0.0 0.0 -8.2 -10.3 -12.6 17. 29. 35. 41.9		
559	25.702	0.0 0.0 -7.0 -10.6 -13.6 17. 32. 35. 43.4		
+ 50		0.0 0.0 -13.8 -15.4 -15.4 17. 36. 44. 46.1		
560	25.690	0.0 0.0 -2.5 -11.4 -16.0 -17.0 15. 20. 34. 45. 51.5		
+ 50		0.0 0.0 -0.6 -11.5 -14.6 -15.3 9 15. 21. 40. 46.0		
561	25.678	0.0 0.0 -0.4 -11.1 -13.3 -15.8 -16.1 9 16. 31. 38. 42. 47.2		

See page 21.

1841

April 6/12

X Sections for Passing Siding

S/2 546+60 – 576+60

| Sta. | Grade | | |

Sta. Grade. X Sections for Passing Siding Sta. 546+60 - 576+60 Apr. 6/12 71.

C.

Sta.	Grade.					
567 + 04.6	25.606	23'RB	0.0	0.0 17	- 0.4 18.	- 8.7 - 10.8 32. 38.0
+ 44.6			0.0	0.0 10.	- 8.6 30.	- 10.2 - 11.2 36. 39.8
566	25.619		0.0	0.0 9	- 0.8 19.	- 10.5 - 12.1 33. 41.6
+ 50			0.0	0.0 10	- 0.5 18.	- 7.1 - 10.3 - 12.8 21.5 34. 42.2
565	25.630		0.0	0.0 9.	- 0.9 18.	- 11.1 - 12.3 34. 41.4
564 + 50			0.0	0.0 10.	- 0.6 19	- 11.1 - 13.1 34. 42.6
564	25.642		0.0	0.0 10	- 0.5 19.	- 2.3 - 11.5 - 13.5 24.5 37. 43.2
+ 50			0.0	0.0 9	- 0.8 19.	- 9.5 - 11.3 34. 40.
563	25.654		0.0	0.0 8.	- 1.0 15.	- 7.2 - 11.3 25. 40.0
+ 50			0.0	0.0 9	- 0.8 13.	- 8.6 - 10.3 27. 38.4
562	25.666		0.0	0.0 8	- 0.9 16.	- 9.7 - 11.2 29 39.8
561 + 50		23'RB	0.0	0.0 16.	- 10.7 32.	- 13.5 43.2

from page 19.

1843

Sta: Grade X Sections for Passing Siding — apr. 6/12

Sta: 546+60 – 576+60

Sta:		C	R
+ 50		0.0	0.0 - 2.1 - 11.4 - 15.0 - 15.0 17. 31. 33. 41. 45.5
573	25.536	0.0	0.0 - 10.9 - 17.1 - 19.2 14. 30. 45. 50.8
+ 50		0.0	0.0 - 3.3 - 14.7 - 14.7 13. 18. 38. 45.0
572	25.548	0.0	0.0 - 1.5 - 10.4 - 11.6 10. 14. 47. 40.4
+ 50		0.0	0.0 - 1.6 - 10.2 - 13.9 - 16.0 10. 15. 27. 34 47.0
571	25.560	0.0	0.0 - 1.5 - 9.0 - 13.0 - 14.7 10. 14. 24. 32. 45.0
+ 50		0.0	0.0 - 10.0 - 12.5 - 14.4 12. 28. 37. 44.C
570	25.571	0.0	0.0 - 9.5 - 13.9 - 14.5 12. 25. 40. 44.8
+ 50		0.0	0.0 - 9.7 - 11.7 15. 30. 40.6
569	25.583	0.0	0.0 - 8.0 - 12.2 15. 28. 41.3
+ 50		0.0	0.0 - 0.5 - 11.4 14.5 30. 40.1
568	25.595	0.0	0.0 - 0.4 - 12.9 - 14.0 11. 15.5 35. 44.0
567+64.6		0.0	0.0 - 0.3 - 13.0 - 19.0 14 16. 35. 21.5

1844

Sta: Grade X Sections for Paving Siding C JP 23.
Sta. 546+60 - 576+60.

576+50	25.494	0.0	0.0 26.	0.0									RB 12.5
576	25.500	0.0	0.0 18.	0.0 28.5									16' RB
575+50	25.506	0.0	0.0 19.		-11.4 37.1								26' RB
575+11.8	25.510	0.0	0.0 14	-2.2 18.	-12.0 36.	-13.0 41.	-16.6 47.9						28' RB
574+31.8		0.0	0.0 14.	-2.6 19.	-9.4 28.	-12.4 37.	-14.2 44.6						"
573+91.8	25.524	0.0	0.0 12.	-1.0 19.5	-9.3 32.	-13.0 40.	-14.8 45.2						"

1845

D. Line FINAL X Sections Sh. 2. C. R. 4/11/11 34.

750	P.		12.0	14.7	17.2	24.0	24.3	24.2	23.1	16.2	14.6	14.2	11.1	8.9
			50.	36.	32.	21.		16.	31.	42.	43.	45.	52.	64.
+ 50			12.5	14.8	16.0	24.2	24.3	24.3	23.0	15.9	14.4	14.0	11.7	9.2
			47.	36.5	35.	21.5		17.	29.	38.	39.	42.	50.	68.
749	P.			12.2	14.5	15.9	24.2	24.3	24.3	23.3	16.2	14.6	13.9	8.1
				45.	36.	35.	22.5		14.	27.	39.	40.	44.5	75.
+ 50		11.1	12.3	14.6	15.7	24.0	24.3	23.7	14.5	11.9	10.5	7.4		
		45.	39.	32.	31.	20.		16.5	42.5	60.	72.	88.		
748	P.		12.1	14.3	16.2	24.1	24.3	24.2	23.5	15.1	13.5			
			45.	33.	32.	19.		14.	24.	41.	50.			
+ 50		10.5	12.7	14.4	15.8	24.2	24.2	24.2	23.6	runs into H Line Emb't				
		45	38.	32.	31.	18.		14.	23.					
747	P.		12.4	14.3	16.4	24.1	24.2	24.0	runs into H Line Emb't					
			38.	30.	29.	18.		23.						

+ 50		9.5	12.3	14.5	16.3	24.0	24.2	24.2	runs into H Line Emb't				
		50.	36.	28.	27.	16.5		23.					
746	P.		9.8	12.3	14.5	16.4	24.2	24.3	24.2	runs into H Line Emb't				
			45.	38.	29.5	28.	17.		24.					
+ 50	P.		8.3	12.2	14.7	17.8	24.2	24.4	24.2	23.2	23.4	runs into H Line Emb't		
			50.	35.	27.	16.	18.5		10.	23.	34.			
745	P.		8.6	13.0	15.2	17.7	24.2	24.4	24.1	23.1	14.5	13.9		
			46	32.	30.	24.	14.		11.	19.	33.	42.		
+ 50	P.	7.7	10.3	12.9	14.8	16.9	24.1	24.2	23.3	15.4	12.3			
		50.	35.	29.	22.	21.	11.5		18.	31.	50.			
744	P.		8.0	11.9	14.4	17.8	24.2	24.3	24.2	17.7	12.2			
			48.	31.	22.	21.	11.		16.	28.	50.			
743 + 50	P.	7.8	9.9	14.5	16.7	23.3	24.1	24.3	23.6	12.8	12.3			
		53.	43.	27.	26.5	16.5	11.		14.5	34.	50.			

FINAL X Sect.
Continued from Final Cross Section Book No 4, page 9.

1846

D LINE
Sta:

April 17/11. 35.

L. C. R.

Final Embankment Cross Sections continued in Final Cross Section Book No. 4, page 6.

T.P. 754 (24.90)

FINAL X Sect.

+50		11.5	13.0	14.4	15.6	24.2	24.4	24.0	16.9	16.7	14.2	8.1	
		45.	40.	32.5	29.	14.		25.	38.	36.	59.5	71.	
753	P.	11.5	13.2	14.9	16.5	24.3	24.4	24.1	18.5	18.1	14.5	14.1	8.5
		47.	40.	31.	28.	16.5		22.5	33.	33.	55.	58.	71.
+50		11.7	12.9	14.7	16.3	24.4	24.5	24.3	20.2	20.1	16.5	14.6	14.0	11.9	
		50.	40.	32.	31.	18.		23.	32.	47.	55.	56.	60.	62.	
													8.6	
													74.	
752	P.		12.5	14.4	15.7	24.2	24.5	24.0	21.6	21.4	16.4	14.7	19.0	8.5	
			45.	34.	33.	20.		23.	27.	46.	53.	56.	60.	74.	
+50		11.7	13.3	14.8	15.8	24.1	24.5	24.3	23.2	23.0	16.3	14.6	13.3	11.1	9.2
		50.	41.	34.	33.	19.5		22.8	25.	44.	54.	55.	58.	62.	67.
751	P.	11.6	12.9	14.7	16.9	24.2	24.5	24.3	24.2	17.1	14.6	14.0	11.9	9.2	
		50.	43.	34.	32.	22.		30.	40.	52.	54.	59.	62.	70.	
750+50			12.1	14.7	16.5	24.1	24.3	23.9	16.3	14.7	14.0	11.5	8.6		
			50.	35.	33.	21.		32.	47.5	49.	53.	59.	72.		

18471

Sta:	Grade	L.	℄	R.
504	26.857	6.4 9.6 15.7 22.5 24.9 25.0 26.1 25.8 19.2 14.9 35. 43. 51. 10. 0. 10. 22. 30. 40.		

Final Cross Sections of Embankment continued from page 13. For Final Borrowpit Cross Sections found in Final Cross Section Book No 2. page 3.

*. Note. Grades in these X Sections are 0.5 higher than Profile Grade, to allow for Settlement.

X Sections of Embankment Sta: 504-616 after Dredger finished work, and before Levelling off with Teams.

1848

S½. P Slide L. R. 47.

511	26.773	6.6	8.8	12.6	15.1	20.2	22.8	76.8	29.1	31.0	31.0	30.2	26.8	21.5	16.8	11.0	7.8	6.6	6.2
		83.	79.	63.	51.	41.	26.	15.	10.	8.		5.	10.	23.	36.	51.	73	80	88.
+ 50	26.779	7.3	11.6	14.7	16.8	22.4	26.8	31.2	31.1	30.3	29.3	26.8	22.3	18.3	14.3	11.4	7.8	5.8	
		80.	68.	59.	49.	29.	24.	10.		6.	10.	16.	26.	41.	47.	63.	80.	83.	
510	26.785	6.8	8.6	10.8	13.4	16.8	21.6	26.8	31.9	31.8	31.4	26.8	21.6	18.2	13.9	8.1	7.2		
		83.	81.	72.	62.	51.	39.	30.	10.		10.	14.	22.	32.	50.	62.	80.		
+ 50	26.791	6.8	10.2	13.8	19.0	23.4	26.8	29.8	30.8	29.8	26.8	23.5	21.0	17.2	13.7	10.8	8.5	7.4	
		81.	71.	53.	41.	34.	23.	10.		5.	14.	21.	32.	39.	53.	71	80	84.	
509	26.797	7.6	9.6	11.4	14.4	19.0	29.0	26.8	30.9	30.0	30.1	26.8	16.8	12.8	8.6	7.1	6.8		
		80.	77.	64.	50	40.	21.	11.	5.		10.	17.	29.	42.	58.	70.	80.		
+ 50	26.803	6.8	9.8	14.3	18.8	23.0	26.8	29.6	30.6	28.7	26.8	23.3	15.8	10.6	8.7	6.0	5.8		
		81.	69.	58.	39.	26.	18.	10.		10.	13.	20.	30.	44.	59.	75.	80.		
508	26.809	8.6	10.5	13.9	21.0	22.8	26.8	27.0	27.8	27.7	26.8	22.7	16.8	14.0	7.2	6.4			
		77.	66.	54.	35.	21.	13.	10.		10.	13.	18.	29.	34.	60.	80.			

P

507 + 50	26.815	6.3	7.5	10.5	18.5	22.4	26.8	26.6	26.7	22.2	15.3	12.3	8.3	6.0					
		79.	65.	48.	30.	21.	10.		10.	20.	30.	44	55.	80.					
507	26.821	4.6	8.2	12.8	18.2	21.4	24.8	26.8	25.6	19.7	14.6	11.7	8.2	6.3					
		77.	68.	53.	33.	27.	10.		10.	21.	36.	46.	58.	80.					
+ 50	26.827	5.3	6.1	9.2	12.1	16.4	19.9	23.2	26.4	26.8	25.7	22.8	19.7	16.0	13.7	10.6	8.3	5.7	5.1
		77.	70.	60.	51.	41.	31.	18.	10.		10.	17.	25.	37.	45.	51.	68.	74.	80.
506	26.833	6.3	7.4	11.4	14.9	19.9	24.2	26.8	28.3	28.8	28.0	26.8	21.8	18.5	16.5	11.9	7.7	6.2	5.3
		78.	69.	53.	46.	36.	22.	16.	10.		4.	8.	17.	30.	40.	56.	68.	80.	85.
+ 50	26.839	6.7	7.4	10.1	12.8	18.5	22.9	26.8	27.7	28.0	27.6	26.8	24.6	19.7	15.9	12.2	5.4	5.2	
		80.	70.	60.	51.	43.	25.	16.	10.		3.	7.	10.	24.	43.	58.	67.	74.	
505	26.845	6.3	8.8	11.0	17.0	21.0	24.9	26.8	27.5	28.4	28.4	26.8	23.5	19.8	17.3	10.6	8.8	4.5	
		76.	67.	57.	44.	31.	16.	13.	10.		10	12.	19.	31.	43.	52.	60.	68.	
+ 50	26.851	6.1	7.4	11.3	16.0	19.5	24.9	26.8	26.9	26.8	25.0	18.6	12.7	9.2	5.5				
		70.	64.	50.	41.	25.	16.	10.			10.	22.	30.	42.	64.	71.			

1849

| S/3: | Code | | |

Sta: P	Grade	L.	C	R	June 14/11
	+ 50	76.613	5.8 9.3 11.3 14.9 17.6 21.9 26.2 27.6 28.4 27.4 26.6 22.8 19.8 16.2 12.9 9.6 7.0 4.8 64. 59. 53. 45. 35. 22. 13. 10. 10. 12. 20. 28. 39. 45. 53. 65. 69.	
521		76.619	5.8 9.7 11.7 14.9 19.1 22.6 26.6 28.6 28.3 26.6 26.0 23.4 20.3 16.5 12.9 9.9 7.2 65. 59. 54. 39. 30. 22. 16. 10. 7. 10. 21. 32. 43. 56. 58. 73.	
	+ 50	76.625	6.7 8.5 11.4 14.9 18.0 22.4 26.6 28.1 28.9 27.6 26.6 24.6 20.4 15.9 11.8 7.2 4.4 69. 64. 52. 42. 32. 23. 14. 10. 10. 14. 21. 29. 40. 53. 80. 89.	
523		76.631	5.9 9.7 11.8 16.2 18.8 21.9 26.6 28.8 29.0 26.6 24.7 20.3 16.1 14.9 8.8 6.6 4.2 71. 64. 52. 42. 34. 27. 18. 10. 10. 18. 31. 41. 48. 59. 67. 80.	
	+ 50	76.637	5.8 8.9 11.9 13.9 16.5 20.4 26.7 28.1 29.0 27.5 26.7 24.1 21.1 17.2 14.9 9.9 8.7 5.2 68. 60. 54. 47. 39. 29. 18. 10. 6. 10. 22. 34. 46. 52. 59. 69. 69.	
522		76.643	5.9 8.8 11.2 15.9 19.6 26.7 28.3 28.3 27.9 26.7 21.3 17.0 15.9 6.2 72. 62. 50. 39. 23. 18. 10. 10. 10. 15. 27. 43. 52. 70.	
	+ 50	76.649	5.9 7.3 10.4 14.9 17.9 23.9 26.7 28.0 28.8 26.7 25.4 22.7 19.6 16.3 12.6 5.8 70. 66. 54. 39. 33. 19. 10. 5. 7. 10. 20. 33. 45. 59. 73.	
P					
521		76.655	5.5 7.7 10.3 16.9 20.1 23.1 26.7 27.4 26.7 25.7 21.1 16.0 13.0 9.0 6.0 71. 60. 51. 38. 28. 19. 10. 5. 17. 33. 45. 57. 67. 70.	
	+ 50	76.661	5.9 8.0 10.2 14.9 16.8 21.5 26.7 27.9 26.7 25.7 24.9 22.7 20.1 16.5 11.9 5.7 71. 65. 54. 40. 36. 22. 10. 5. 10. 14. 18. 37. 55. 65. 73.	
520		76.667	7.1 10.1 15.9 21.1 23.0 26.7 28.0 26.7 24.2 20.7 16.9 14.9 10.3 6.1 74. 53. 37. 27. 19. 10. 10. 22. 28. 40. 51. 59. 69.	
	+ 50	76.673	5.8 7.4 10.3 14.9 17.2 22.6 26.7 27.6 27.9 26.7 24.8 23.1 21.0 17.5 14.9 11.1 6.8 73. 65. 54. 42. 31. 17. 10. 5. 5. 10. 24. 30. 50. 65. 70. 80.	
519		76.679	5.8 9.0 12.7 17.2 22.5 26.7 28.0 28.2 27.8 26.7 23.4 19.1 16.1 11.3 6.8 80. 62. 51. 37. 22. 12. 10. 10. 15. 22. 37. 48. 61. 70.	
	+ 50	76.685	7.1 11.8 17.1 20.2 26.7 28.2 28.3 26.7 24.1 18.9 15.5 12.4 8.5 7.4 72. 58. 40. 28. 15. 10. 10. 20. 33. 48. 59. 66. 72.	
518		76.690	5.9 7.8 11.5 17.3 21.2 26.7 27.3 27.7 26.7 23.2 21.2 16.4 12.3 9.9 7.9 80. 75. 61. 40. 31. 12. 10. 10. 20. 28. 40. 50. 58. 63.	

1851

S½ | frac | Tr. | C. | R. | Tunnel 1/11 | 50.

P

530	26.548	7.6	10.9	15.9	20.4	23.5	26.5	29.2	27.9	26.5	22.4	15.9	13.1	6.4	0.9	0.2		
		73.	59	45.	34.	20.	15.	10.		10.	17.	33.	40.	48.	70.	75.		
+ 50	26.554	7.2	11.9	15.9	17.9	20.0	26.6	29.9	30.1	29.3	28.0	24.7	22.9	15.0	10.6	5.7	2.1	1.1
		72.	58.	47.	41.	33.	21.	12.	10.		9.	10.	19.	31.	38.	46.	66.	76.
529	26.560		8.7	10.3	12.9	21.0	24.1	26.6	23.5	20.3	17.5	15.9	11.2	8.2	3.9	3.6		
			64.	56.	46.	24.	19.	6.		9.	10.	15.	19.	27.	44.	57.		
+ 50	26.566	5.8	8.6	12.0	16.9	21.8	26.6	30.0	29.6	27.6	26.6	22.1	18.4	14.8	9.5	4.7	3.7	
		74.	62.	53.	39.	26.	18.	10.	3.		7.	10.	22.	30.	43.	65.	66.	
528	26.572	6.0	10.8	14.1	16.8	20.6	26.6	30.0	30.5	29.6	27.5	26.6	21.8	18.8	15.2	7.2	2.5	
		79.	60.	52.	44.	31.	19.	13.	10.		6.	8.	15.	24.	36.	46.	64.	

P

+ 50	26.577	6.3	9.1	12.8	16.8	20.4	26.6	29.8	30.6	28.4	27.2	26.6	23.0	20.5	17.8	11.0	8.1	3.4
		80.	70.	58.	44.	31.	21.	14.	10.		10.	12.	24.	29.	40.	48.	63.	73.
527	26.583	5.8	10.0	14.2	16.8	19.3	23.7	26.6	29.7	28.6	26.6	23.6	19.1	14.3	11.7	5.8	4.6	
		85.	71.	59.	56.	40.	25.	21.	10.		10.	19.	28.	45.	57.	68.	73.	
+ 50	26.589	6.4	9.3	12.4	15.5	20.1	24.0	26.6	28.0	28.3	26.6	26.4	23.7	19.7	14.9	11.0	6.9	4.9
		84.	76.	66.	55.	40.	27.	18.	10.		8	10.	13.	29.	40.	50.	59.	78.
526	26.595	6.7	11.2	14.9	17.9	22.4	24.7	26.6	27.1	27.6	26.6	18.9	12.9	9.2	6.9	6.1	4.7	
		75.	62.	48.	40.	27.	20.	15.	10.		10.	23.	46.	59.	62.	80.	94.	
+ 50	26.601	5.5	7.4	10.6	16.5	20.1	23.6	26.6	27.3	26.6	24.2	20.2	15.7	10.9	6.6	4.9		
		77.	69	60.	44.	34.	20.	12.	10.		10.	24.	39.	56.	62.	69.		
525	26.607	6.3	7.8	13.1	16.7	22.7	24.4	26.6	27.8	27.2	26.6	24.0	20.9	17.7	14.9	10.7	4.9	
		70.	63.	49.	41.	28.	17.	12.	10.		9.	10.	27.	36.	41.	54.	62.	

Sta	Grade	L.																		
535 P	26.489	6.0	8.4	10.2	16.3	18.8	23.9	26.5	28.0	28.0	28.4	26.5	20.6	15.5	10.1	7.2	4.5	2.0		
		67.	59.	53.	39.	26.	18.	10.	5		10.	15.	26.	32.	45	58.	68.	79.		
+50	26.445	5.8	9.4	12.1	14.8	18.0	20.2	26.5	27.5	27.3	27.3	26.5	20.1	12.0	4.3	- 0.7				
		69.	57.	49.	45.	31.	21.	12.	10.		10.	12.	27.	37.	75.	80.				
534	26.501	5.9	7.4	10.5	13.9	18.2	21.2	26.5	26.7	26.5	26.9	26.5	17.5	12.2	6.8	3.1	- 0.7			
		69.	64.	55.	46.	33	20.	12.	10.		10.	12.	33.	39.	50.	67.	74.			
+ 50	26.306	5.9	9.2	12.5	15.7	19.6	21.9	26.5	27.2	26.8	26.5	22.9	18.2	15.3	10.5	5.1	1.9	- 0.3		
		70.	60.	50.	42.	26.	20.	14.	10.		10.	18.	26.	35.	44.	54.	71.	77.		
533	26.511	6.7	10.8	13.3	15.9	19.6	23.2	26.5	26.5	25.3	24.9	18.7	13.3	8.6	0.7	- 0.3				
		68.	57.	47.	35.	25.	17.	10.		10.	14.	24.	38.	53.	68.	78.				
P + 50	26.557	6.2	7.6	10.8	15.9	18.7	21.4	26.5	26.2	26.5	20.2	15.9	11.4	6.7	0.2	- 0.4				
		65.	61.	51.	39.	26.	19.	10.		10.	20.	34.	44.	56.	67.	80.				
532	26.523	5.7	6.6	9.3	12.9	15.9	19.9	26.5	27.4	26.5	17.8	14.5	7.4	3.3	0.9	- 0.3				
		70.	61.	52.	40.	32.	20.	10.		10.	25.	32.	50.	55.	70.	78.				
+ 50	26.529	6.5	9.4	13.0	15.9	19.2	26.5	27.7	28.0	27.3	26.5	20.7	15.9	12.1	7.6	6.1	1.9	0.0		
		65.	50.	37.	31.	20.	8.	5.		10.	15.	23.	30.	37.	51.	58	74.	77.		
531	26.535	5.9	7.8	10.8	17.2	21.4	26.5	27.9	29.6	28.9	28.1	26.5	23.2	20.5	15.9	10.6	6.8	3.9	3.1	0.0
		73.	63.	54.	34.	23.	12.	10.	5.		10.	12.	18.	23.	30.	43.	62.	68.	72.	76.
530 + 50	26.541	6.8	8.5	17.7	21.2	26.5	29.5	28.8	28.9	27.6	26.5	24.5	16.6	13.2	7.5	3.4	0.0			
		70.	64.	38.	28.	18.	10.		5.	10.	11.	17.	29.	40.	49.	66.	77.			

51

Time 3:16

1853

Sta.	Grade.		Z.	C	R.	June 22/10 52.
540 P	26.429	5.9 7.9 10.1 12.9 15.4 18.1 23.5 26.8 27.9 28.4 27.8 26.4 19.9 15.1 11.7 7.1 3.3 -0.1 72. 65 53. 45. 39. 30. 21. 14. 10. 10. 12. 32. 39. 37 35. 73 77.				
+50	26.435	5.7 8.5 10.4 18.6 23.1 26.4 28.7 28.5 28.3 26.4 22.1 13.9 8.0 3.8 2.9 1.9 -0.2 73. 62. 39. 36. 22. 15. 10. 10. 12. 20. 35. 46 51. 83 74. 78.				
539	26.441	6.0 8.0 11.3 16.8 19.7 22.0 26.5 27.5 28.9 29.4 28.8 26.5 21.1 16.1 9.2 4.0 -0.3 71. 64. 54. 44. 31. 21. 13. 10. 5. 5. 10. 20. 31. 44. 72. 80.				
+50	26.447	6.0 7.6 11.2 15.6 19.0 22.9 26.5 28.9 27.8 28.1 26.5 21.6 17.7 9.7 6.0 1.4 -0.2 74. 64. 54. 49. 39. 22. 15. 10. 8 10. 18. 30. 41. 59. 74. 77.				
538	26.453	5.5 8.7 10.6 14.1 17.8 22.3 26.5 28.2 27.2 28.1 26.5 21.9 13.9 8.7 3.1 -0.2 74. 64. 54. 45. 34. 21. 14. 10. 10. 14. 20. 32. 44. 70. 78.				
+50	26.459	6.1 8.6 11.7 18.3 22.6 26.5 27.77 28.7 27.3 26.5 20.9 17.6 13.9 10.1 6.3 2.6 -0.3 74. 62. 55. 36. 21. 12. 10. 10. 13. 21. 30. 43. 53. 59. 75. 80.				
537 P	26.465	5.8 7.7 10.1 16.8 23.0 26.5 27.8 28.5 28.1 26.5 20.8 17.3 11.9 7.8 4.0 +0.6 72. 66. 53. 36. 19. 13. 10. 10. 13. 20. 37. 35. 52. 72. 80.				
+50	26.471	6.8 8.3 10.2 13.9 18.3 23.0 26.5 26.9 27.8 27.7 26.5 17.7 11.6 7.0 1.8 -1.1 66. 58. 51 39. 29. 17. 12. 10. 10. 17. 27. 36. 45. 74. 80.				
536	26.477	5.4 9.8 13.9 18.5 22.7 26.5 28.0 28.4 28.3 26.5 20.0 17.0 13.9 11.2 6.8 2.5 69. 55. 44. 29. 17. 10. 7. 10. 17. 23. 30. 34. 46 65 80.				
535 +50	26.483	6.3 10.8 13.9 18.6 23.8 26.5 28.0 28.7 28.0 26.5 22.6 16.9 11.2 9.2 5.3 1.9 -0.3 69. 52. 46. 26. 14. 10. 6. 10 17. 23. 34. 41. 48. 56. 72. 80.				

1854

Sta.	Grade	Z.	O	R.	Time 24/4 53.
545 P	26.269	5.9 8.6 12.9 15.9 17.5 22.0 76.4 27.1 27.0 26.9 76.4 18.9 14.5 8.9 4.9 4.9 0.9 78. 67. 53. 48 36. 22. 15. 10 6. 10. 21. 38. 44. 52. 71. 79.			
+ 50	26.375	6.3 9.1 10.9 14.9 16.3 18.7 23.0 76.4 27.2 27.2 26.5 76.4 17.9 15.0 7.9 7.9 4.9 1.9 76. 68. 62. 49. 36. 30. 21. 14. 10 8. 10. 20. 26. 41. 56. 73. 77.			
544	26.281	5.9 7.9 10.4 15.6 16.6 18.9 24.5 76.4 27.0 27.0 27.0 76.4 19.1 15.9 19.0 8.4 3.9 1.9 78. 69. 57. 48. 35. 28. 19. 11. 10. 10. 13. 26. 36. 42. 56. 59. 66.			
+ 50	26.387	6.9 7.7 14.2 17.9 23.7 76.4 27.5 27.3 27.3 76.4 20.9 16.2 13.7 10.7 5.5 0.9 72. 66. 51. 32. 21. 15. 10. 10. 12. 20. 28. 38. 41. 61. 73.			
543	26.293	6.5 8.6 10.0 13.5 16.7 20.2 76.4 27.8 27.4 76.4 20.0 19.3 11.8 5.9 2.9 2.4 0.9 79. 67. 63. 50. 38. 28. 19. 10. 10. 20. 31. 39. 56. 59. 66. 86.			
+ 50	26.397	6.2 7.5 9.8 12.9 16.2 19.8 76.4 27.0 28.2 28.7 76.4 15.0 9.3 6.0 2.4 0.9 79. 74. 66. 56. 40. 26. 13. 10. 8. 10. 24. 52. 54. 67. 80.			
542 P	26.405	6.0 7.6 10.1 14.9 18.7 76.4 27.5 27.3 27.1 76.4 20.5 16.1 10.5 5.9 3.3 1.7 76. 70. 62. 47. 27. 17. 10. 10. 11. 19. 26. 42. 58. 73. 96.			
+ 50	26.411	5.8 6.8 7.7 10.6 14.2 17.8 76.4 27.6 28.0 28.1 76.4 19.9 15.8 13.9 8.1 5.9 2.4 0.7 75. 72. 67. 56. 47. 31. 17. 10. 10. 14. 22. 30. 38. 41. 53. 74. 78.			
541	26.417	5.9 7.3 9.6 11.4 14.1 16.6 21.7 76.4 28.5 28.4 27.8 76.4 20.9 16.9 13.9 9.9 6.2 2.7 0.9 78. 71. 60. 53. 47. 33. 25. 19. 10. 10. 12. 20. 25. 32. 42. 53. 72. 92.			
+ 50	26.423	6.4 7.3 9.9 13.4 18.5 22.6 76.4 27.9 28.3 28.3 76.4 21.5 18.0 13.9 9.1 5.9 4.7 0.5 72. 68. 58. 44. 32. 22. 15. 10. 10. 23. 31. 26. 36. 53. 63. 74. 79.			

1855

Sta.	Grade	Z.	C	P.
549+96.4 P	26.311	6.4 8.1 11.8 15.5 20.1 76.3 77. 66. 49. 39. 31. 10.	27.1 27.7 27.8	26.3 14.0 10.6 7.0 3.1 2.6 6. 10. 12. 25. 35. 40. 50. 70.
549+36.4	26.318	6.8 10.7 14.7 16.9 18.3 76.2 76. 55. 44. 32. 22. 10.	27.0 27.7 27.7 5.	26.3 16.9 10.4 4.2 2.7 10. 28. 38. 50. 70.
548+76.4	26.325	5.3 9.0 11.5 14.7 19.6 76.2 64. 64. 52. 41. 24. 10.	27.2 28.0 27.7 5.	26.2 17.2 13.7 11.4 8.0 4.6 3.4 10. 20. 30. 38. 44. 52. 70.
548+16.4 BC	26.332	6.1 10.9 15.2 18.7 76.3 27.9 71. 33. 20. 26. 14. 10.	28.1 28.0	26.3 18.4 16.1 9.9 8.5 5.7 2.9 8. 18. 28. 41. 49. 57. 86.
548	26.334	5.9 10.5 12.9 16.5 18.8 26.6 79. 60. 48. 38. 27. 28.	26.3 27.5 27.3	27.0 26.2 19.2 14.2 8.7 7.6 5.2 4.2 3.0 8. 11. 20. 26. 36. 42. 48. 53. 80.
BM 5.023 60 Z Sta 547+00				
+50	26.340	6.4 8.7 11.0 13.9 15.6 19.2 21.4 76.3 77. 68. 55. 40. 37. 31. 22. 13.	27.1 27.4	26.3 21.2 15.8 7.6 5.6 3.3 2.5 10. 15. 26. 39. 48. 55. 80.
547 P	26.346	6.7 9.9 12.9 17.0 23.6 76.3 77. 64. 28. 33. 20. 14.	27.0 27.1 27.0 10.	26.3 18.7 8.8 3.8 2.9 2.4 8 10. 18. 35. 45. 58. 80.
+50	26.351	6.4 9.9 13.7 15.6 20.7 76.2 78. 62. 45. 40. 27. 17.	27.0 27.3 27.0 10	26.3 20.2 15.9 12.0 8.1 3.4 2.1 8. 10. 18. 25. 32. 38. 56. 80.
546	26.357	6.4 9.2 11.9 15.2 18.3 21.7 78. 67. 54. 44. 32. 24.	26.4 26.8 26.8 14. 10.	26.4 14.9 12.9 8.8 5.7 3.5 1.9 10. 28. 34. 41. 59. 69. 71.
545+50	26.363	6.3 8.5 10.9 14.0 17.0 23.2 78. 67. 53. 46. 36. 24.	26.4 27.3 27.4 16. 10.	27.6 26.4 17.0 12.9 10.4 7.8 4.6 1.9 8. 10. 19. 24. 31. 46. 87. 77.

1856

Sta.	Feide	T.	C.	R
554 + 84.1 C.B. P	26.252	5.0 6.8 10.1 14.7 19.2 20.6 24.9 26.2 27.0 27.9 27.8 26.2 20.0 12.1 4.2 2.9 73. 69. 60. 46. 28. 25. 20. 14. 10. 5 10. 18. 30. 49. 62.		
554 + 50	26.256	5.2 8.3 12.4 14.8 18.8 20.9 26.3 28.0 26.2 23.5 18.7 15.9 10.8 7.7 4.3 2.8 80. 71. 58. 50. 42. 32. 22. 10 7 17. 24. 30 36. 47 60.		
554	26.262	4.9 6.5 10.3 13.9 17.7 20.2 25.5 26.3 28.0 25.2 22.2 15.9 11.6 7.6 3.3 2.9 94. 88 78. 64. 47. 38. 28. 18. 10. 10. 24. 28. 41. 49. 62.		
553 + 50	26.268.	10.1 14.1 20.3 23.5 26.3 30.0 30.7 29.0 28.0 26.3 21.6 19.7 15.6 10.2 3.7 2.6 90. 79. 68. 58. 46. 30. 22. 18. 10. 5. 10. 28. 43. 58. 70. 6.4 5.A 103. 108.		
553	26.274	13.1 15.8 20.4 23.8 26.3 31.5 30.3 26.3 24.1 21.2 18.9 15.4 9.8 5.7 3.9 3.8 95. 90. 79. 66. 54. 30. 31. 17 10. 10. 22. 41 52. 59 80. 7.4 8.2 115. 123.		
+ 50	26.280	14.5 21.8 24.2 26.3 30.8 31.4 29.5 26.3 25.8 23.7 20.7 17.9 14.0 5.0 3.2 2.5 86. 80. 64. 50. 32. 20. 39. 34 25. 10. 10. 27. 51. 64. 80. 10.3 6.8 4.8 101. 119. 125.		
552 P	26.286	9.5 14.0 16.8 19.8 23.3 26.3 30.8 26.3 32.2 33.4 32.9 31.0 16.9 13.9 10.4 2.7 2.4 91. 80. 71. 55. 37. 20. 40. 26. 24 10. 10. 20. 37. 50. 61. 77. 6.0 4.3 109. 112.		
+ 50	26.292	5.8 8.1 17.1 15.8 21.8 26.3 28.4 28.5 26.3 27.6 23.2 22.7 20.6 17.5 15.5 14.7 11.9 3.7 2.2 97. 84. 67. 60 41. 30. 37. 21. 19. 10. 6. 10. 12. 33. 42. 50. 60. 66.		
551	26.298	5.5 8.8 12.4 16.8 19.2 26.3 28.8 29.4 26.8 26.3 23.3 19.4 17.5 13.4 5.2 3.9 2.2 89. 76. 60. 41. 33. 20. 15 30. 4. 10. 16 26. 42. 57. 63. 66.		
550 + 56.4	26.303	4.8 9.2 12.2 15.9 18.1 26.3 29.2 29.7 28.8 26.3 16.9 12.4 7.7 2.7 2.2 84. 68. 49. 37. 29. 16. 10. 6. 12. 24. 34. 50. 62. 70.		

Sta:	Grade.	L.	O	R
562 P	76.166	4.7 7.7 8.7 16.9 19.1 76.1 27.4 27.7 27.0 76.1 17.9 16.9 12.6 10.4 3.8 3.1 75. 61. 56 32. 25. 14. 10. 9 10. 46. 30. 57. 61. 80. 86.		
+ 50	76.172	4.9 9.2 14.2 20.9 76.7 27.0 27.4 26.2 18.4 11.0 3.6 3.4 72. 52. 30. 19. 11. 10. 8 22. 52 72 80.		
561	76.178	5.9 9.1 14.0 17.8 22.1 76.2 27.9 28.4 28.4 76.2 16.9 10.4 8.1 5.4 3.9 67. 54. 43. 30. 17. 10. 5. 10. 17. 29. 43. 59. 67. 86.		
+ 50	76.184	5.7 7.6 10.9 15.9 20.8 76.2 27.0 27.9 27.7 27.8 76.2 19.7 14.7 10.2 6.9 4.7 69 59. 46. 34. 24. 12. 10. 7. 10. 15. 33. 51. 47. 58. 80.		
560	76.190	5.4 9.5 13.3 18.8 76.4 76.7 27.9 27.5 76.2 18.5 13.2 7.1 4.5 70. 55. 39. 30. 17. 10. 10. 18. 24 39. 51. 80.		
+ 50	76.196	5.4 9.1 13.0 17.1 19.2 76.2 27.4 27.1 27.2 76.2 17.0 13.7 10.1 7.6 4.9 4.5 70. 55. 41. 30. 25. 14. 10. 7 10. 26. 33 50. 62. 69. 80.		
559	76.202	5.9 8.4 10.9 13.9 15.9 21.1 76.2 27.6 27.9 28.0 76.2 20.8 16.4 8.9 4.4 3.9 67. 60. 50. 41. 29. 21. 10. 7. 10. 15. 28. 32. 53. 64 80.		
+ 50	76.208	4.9 5.2 10.2 15.2 18.2 76.2 27.5 27.7 27.3 76.2 20.6 17.4 13.2 5.8 4.6 25. 59. 49. 37. 28. 12. 10. 10 15. 32. 49. 51. 64 72.		
558 P	76.214	6.9 10.3 14.0 16.7 19.5 76.2 27.8 28.0 27.6 76.2 21.8 15.9 8.0 4.1 3.9 62. 39. 38. 32. 22. 11. 10. 10. 14. 24. 37. 55. 61. 70.		
557 + 54.1 E.C.	76.220	5.1 9.3 14.5 16.9 21.7 76.2 76.7 76.4 76.2 21.8 18.4 12.1 9.0 5.0 3.6 60. 51. 33. 30. 19. 10. 10 12. 23. 33. 40. 52. 65. 81.		
557 + 24.1	76.224	5.1 8.6 11.2 15.9 76.2 27.1 27.3 76.8 76.2 22.8 16.4 14.2 8.2 5.7 3.7 59. 51. 41. 26. 10. 8 5. 10. 15. 29. 33. 46. 62. 70.		
556 + 64.1	76.231	5.9 10.6 15.2 17.6 76.2 27.8 27.1 28.0 76.2 18.9 12.4 7.3 3.2 2.7 59. 47. 32. 24. 10. 8 10. 18. 30. 40. 50. 61. 72.		
556. + 04.1	76.238	5.9 9.1 13.5 15.9 18.9 76.2 28.6 28.4 28.0 76.2 18.6 15.9 10.2 8.1 3.7 2.6 60. 53. 37. 30. 22. 10. 5. 10. 16. 26. 35. 43. 51. 64 80.		
555 + 44.1	76.245	5.6 8.6 13.6 18.4 22.4 76.1 27.2 28.0 28.4 76.2 18.1 12.4 3.7 2.7 66. 58 41. 35. 18. 15. 10 8 12. 25. 38 52. 65		

1859

Sta.	Code	L.	C.	R.
569 P	26.084	6.5 7.4 9.1 11.3 16.8 21.3 26.1 27.3 27.7 27.6 26.0 19.7 14.9 12.3 9.8 7.2 5.5 58. 54. 48. 41. 34. 17. 10. 4 10. 13. 24. 38. 45. 56. 71. 75.		
+ 50	26.090	5.7 6.8 9.1 14.7 20.4 21.3 26.1 27.2 27.3 27.7 26.1 20.8 17.0 14.7 8.7 5.5 5.1 60 55. 48. 40. 26. 19. 10. 5 10. 13. 16. 27. 40. 62. 71. 80.		
568	26.095	4.5 7.0 13.0 18.4 20.9 26.1 27.0 27.8 27.6 26.1 18.5 14.7 10.6 6.4 5.0 67. 60 42. 34. 20. 10. 5. 5. 10. 20. 27. 47. 60 80.		
567 + 64.6 C.C.	26.100	5.8 9.7 13.4 18.1 22.0 26.1 28.0 28.1 28.0 26.1 19.7 14.3 11.2 6.9 5.2 5.2 69. 55. 44. 33. 19. 13. 10 10. 11. 20. 30. 42. 58. 63. 80.		
567 + 04.6	26.106	6.1 9.4 12.9 17.3 22.0 26.1 28.7 29.1 29.5 28.8 26.1 21.4 17.6 15.9 9.2 6.1 3.8 71. 55. 47. 34. 23. 17. 14. 10 10. 16. 22. 30. 44. 53. 66. 83.		
566 + 44.6	26.114	4.9 9.3 13.3 19.1 26.1 28.2 28.9 28.2 27.6 26.1 21.6 18.7 15.9 14.4 5.7 3.7 72. 59. 41. 28. 18. 10. 6. 10. 13. 19. 31. 37. 51. 62. 83.		
566	26.119	5.5 10.7 12.5 18.0 20.3 26.1 28.3 28.1 26.5 26.1 20.1 15.9 13.0 5.9 3.9 76. 60. 46. 32. 26. 18. 10. 10. 11. 19. 33. 51. 59. 72.		
+ 50	26.125	4.7 7.1 12.9 17.2 21.7 26.1 28.5 29.0 28.9 27.7 26.1 20.1 17.0 12.4 7.6 4.7 3.8 74. 67. 52. 35. 25. 19. 16. 10. 12. 22. 30. 47. 58. 72. 80.		
565 P	26.130	4.7 8.8 13.5 17.3 21.2 26.1 29.0 28.9 27.0 26.1 18.5 15.9 12.4 8.4 3.9 2.9 76. 61. 47. 39. 24. 15. 10. 10. 13. 28. 32. 48. 63. 62. 73.		
+ 50	26.136	5.7 7.3 11.4 15.9 18.9 26.1 28.4 29.0 27.3 26.1 18.6 15.9 13.3 10.9 6.4 2.9 76. 65. 50. 39. 26. 15. 10. 10. 15. 26. 36. 44. 58. 66. 82.		
564	26.142	4.8 10.9 13.9 18.5 23.1 26.1 28.5 29.3 27.1 26.1 19.8 14.7 9.2 2.8 2.8 71. 49. 37. 31. 20. 14. 10. 10. 16. 24. 38. 58. 66. 70.		
+ 50	26.148	5.4 8.4 12.7 17.3 20.2 26.1 28.8 28.7 28.4 26.1 24.6 18.4 15.9 11.7 8.7 5.2 2.9 68. 57. 45. 33. 24. 15. 10. 6. 10. 15. 24. 39. 51. 66. 77. 90.		
563	26.154	5.3 8.1 11.9 15.9 19.5 26.1 28.1 28.6 26.1 25.4 25.5 21.4 15.9 12.8 8.2 2.8 74. 63. 48. 37. 24. 16. 10. 7. 10. 13. 16. 34. 59. 73. 82.		
+ 50	26.160	4.6 7.7 11.9 16.9 18.9 26.1 26.9 27.9 26.1 23.7 20.7 18.3 14.7 8.9 3.9 2.9 80. 66. 50. 23. 27. 17. 10. 6. 10. 15. 26. 46. 72. 86. 88.		

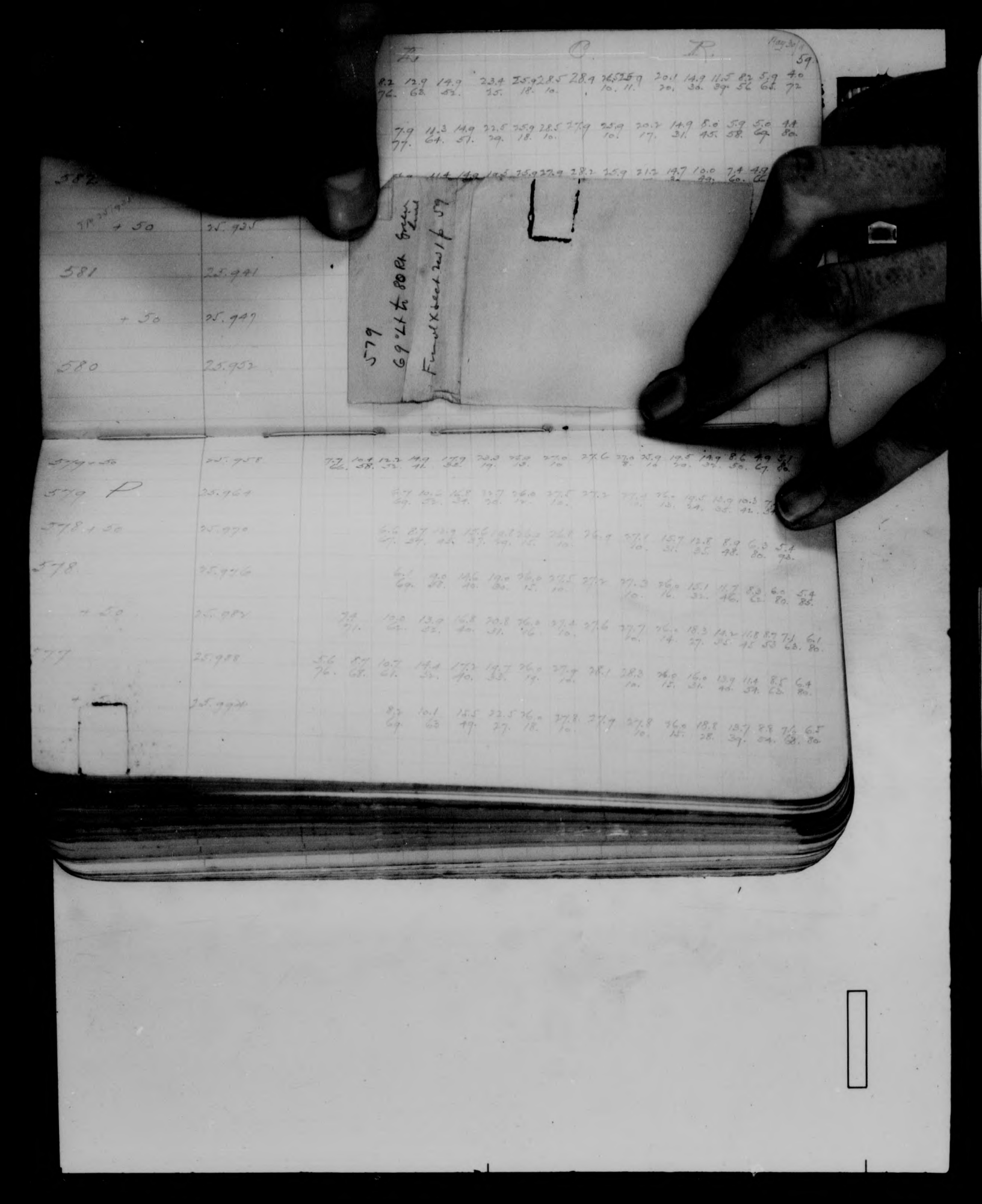
1860

Sta	Stadia.	L.	C.	R. June 11/17 58.
576 P	26.000	7.3 8.4 11.4 14.8 22.3 76.0 27.6 28.1 28.2 76.0 18.2 12.7 9.8 6.7 6.0 66. 64. 53. 37. 20. 12. 10. 10. 20. 34. 45. 59. 70. 80.		
575 + 50.	26.006	8.0 11.5 14.9 19.5 76.0 26.7 28.4 28.3 76.0 18.7 11.9 8.2 6.8 28. 47. 38. 25. 12. 10. 10. 17. 27. 43. 55. 80.		
575 + 11.8	26.010	7.5 8.4 11.6 13.9 16.7 21.6 76.0 26.5 27.8 27.2 76.0 17.7 12.3 8.9 7.8 6.4 5.9 62. 59. 49. 42. 37. 21. 11. 10. 10 14. 26. 37. 48 64 70. 80.		
574 + 51.8	26.017	7.5 10.6 14.9 17.5 21.3 76.0 26.7 26.9 26.0 17.4 12.2 9.6 7.9 5.6 64. 56. 49. 40. 22. 12. 10. 10. 24. 41. 57. 70. 80.		
573 + 91.8	26.029	7.5 10.2 14.9 17.0 21.9 76.0 28.6 27.9 28.1 76.0 17.6 11.3 8.9 6.5 5.5 61. 56. 46. 39. 28. 16. 10. 10. 16. 27. 43. 58. 67. 80.		
+ 50	26.030	8.9 11.4 14.0 16.7 19.9 76.0 29.2 28.1 27.4 76.0 21.5 14.9 10.4 6.5 5.6 4.9 60. 54. 44. 40. 28. 16. 10 10 12. 20. 34. 46. 57 75. 80.		
573	26.036	8.1 11.0 16.4 19.2 26.0 28.0 28.1 27.5 26.0 21.6 16.7 8.4 6.2 4.0 64. 55. 40. 28. 16. 10. 5 10. 17. 28. 46. 52. 80.		
+ 50	26.042	8.1 10.2 12.0 18.9 18.7 23.9 76.0 27.2 27.2 76.0 20.5 17.1 11.1 6.5 5.2 3.3 60. 54. 47. 41. 32. 20. 13. 10. 10. 17. 22. 43. 61. 71. 80.		
572 P	26.048	8.0 10.3 12.8 15.9 21.6 76.0 27.3 27.7 27.4 76.0 18.3 15.1 12.2 7.9 3.5 59. 53. 44. 36. 25. 17. 10 4 10. 18. 29. 44. 62 80.		
+ 50	26.054	8.9 10.5 13.0 16.1 21.4 76.0 27.6 27.7 27.7 76.0 19.5 16.5 12.1 8.9 6.7 3.9 54. 47. 43. 36. 21. 12. 10. 3 10. 16. 24. 35. 50. 60. 76.		
571	26.060	8.4 10.7 13.4 17.1 22.5 76.0 27.2 26.8 26.0 17.5 13.7 10.7 7.2 4.5 4.2 61. 50. 43. 34. 23. 10. 6 10. 20. 31. 46. 61. 68. 80.		
+ 50	26.066	6.1 8.8 13.5 17.2 22.9 76.0 27.1 27.3 26.0 17.1 12.6 9.9 7.0 4.9 64. 55. 44. 36. 23. 14. 10 10. 25. 40. 51. 62. 80.		
570	26.072	7.7 9.4 14.9 20.0 21.7 76.1 27.3 27.0 26.1 17.5 14.9 11.6 8.0 6.6 5.6 61. 52. 41. 29. 20. 10. 7 10. 24. 34. 43 67. 75. 82.		
+ 50	26.078	6.5 9.0 12.7 19.3 22.3 26.1 27.2 27.1 26.1 17.9 14.9 11.3 8.9 5.9 5.6 59. 49. 39. 29. 17. 10. 10. 14. 35. 34. 50. 65. 76. 80.		

1981

	Index	N.	C.	R.	Mag.
583 P	25.917	8.2 12.9 14.9 23.4 25.9 28.5 28.9 76.5 25.9 20.1 14.9 11.5 8.2 5.9 4.0 76. 63. 52. 25. 18. 10. 10. 11. 20. 30. 39. 56. 68. 72.			
+ 50	25.923	7.9 11.3 14.9 23.5 25.9 28.5 27.9 25.9 20.2 14.9 8.0 5.9 5.0 4.1 77. 64. 51. 24. 18. 10. 10. 17. 31. 45. 58. 69. 80.			
582	25.929	7.9 11.4 14.9 19.3 25.9 27.9 28.2 25.9 21.2 14.7 10.0 7.4 4.9 4.1 73. 62. 48. 64. 16. 10. 10. 17. 30. 49. 60. 72. 80.			
TP 24"×4" + 50	25.935	8.1 11.4 14.9 25.9 27.0 27.7 25.9 19.7 12.7 11.0 7.5 5.8 4.6 72. 58. 46. 16. 10. 10. 19. 36. 42. 54. 58. 70.			
581	25.941	8.3 12.4 14.9 19.9 25.9 27.3 26.9 25.9 19.4 12.4 7.9 4.1 2.2 66. 52. 44. 31. 16. 10. 10. 21. 34. 47. 61. 72.			
+ 50	25.947	8.8 13.1 14.9 17.9 23.0 25.9 27.0 27.3 25.9 22.1 19.9 14.9 6.6 4.9 2.7 2.1 63. 52. 44. 31. 24. 14. 10. 10. 16. 32. 35. 54. 65. 74. 80.			
580	25.952	7.1 13.3 15.9 21.1 25.9 26.7 26.9 25.9 17.9 10.1 7.2 4.2 3.1 2.1 69. 50. 44. 23. 14. 10. 10. 23. 37. 49. 65. 74. 80.			
579 + 50	25.958	7.7 10.4 12.2 14.9 17.9 20.2 25.9 27.0 27.6 27.0 25.9 19.5 14.9 8.6 4.9 3.1 3.5 66. 58. 52. 41. 33. 19. 10. 10. 8. 10. 20. 32. 50. 67. 80. 85.			
579 P	25.964	6.7 10.6 16.8 22.7 26.0 27.5 27.7 27.4 26.0 19.5 13.9 10.3 7.4 5.0 69. 52. 34. 20. 17. 10. 10. 13. 24. 35. 42. 54. 80.			
578 + 50	25.970	6.6 8.7 13.9 15.6 19.8 26.0 26.8 26.9 27.1 15.7 12.8 8.9 6.3 5.4 67. 54. 45. 37. 29. 15. 10. 10. 31. 35. 48. 80. 93.			
578	25.976	6.1 9.0 14.6 18.0 26.0 27.5 27.7 27.3 26.0 15.1 11.7 8.3 6.0 5.4 69. 58. 40. 30. 15. 10. 10. 16. 32. 46. 62. 80. 85.			
+ 50	25.982	7.4 10.0 13.9 16.8 20.8 26.0 27.4 27.6 27.7 26.0 18.3 14.2 11.8 8.7 7.1 6.1 71. 62. 52. 40. 31. 16. 10. 10. 14. 27. 35. 45. 53. 63. 80.			
577	25.988	5.6 8.7 10.7 14.4 17.2 19.7 26.0 27.9 28.1 28.3 26.0 16.0 13.9 11.4 8.5 6.4 76. 68. 61. 51. 40. 33. 19. 14. 10. 15. 31. 40. 54. 63. 80.			
+ 50	25.994	8.2 10.1 12.5 22.5 26.0 27.8 27.9 27.8 26.0 18.8 13.7 8.8 7.6 6.5 69. 63. 49. 27. 18. 10. 10. 15. 28. 39. 54. 62. 80.			

1862



Sta.	Grade	Z							Q			R					Co.
589	25.829	8.8	10.1	11.0	14.8	19.3	25.8	28.0	27.7	27.2	23.1	19.8	14.8	6.8	2.0		
		60.	57.	53.	42.	35.	18.	10.	7.		10.	9.	35.	68.	83.		
589 P	25.845	4.7	8.3	10.3	18.5	25.8	28.6	28.4	24.8	23.0	22.9	18.9	14.8	9.1	5.8	2.5	
		69.	58.	53.	40.	18.	10.	9.		10.	17.	35.	40.	54.	70.	84.	
+ 50	25.851	9.2	12.3	16.0	21.9	25.8	27.8	25.8	23.6	22.9	19.0	15.4	11.3	7.7	3.6		
		54.	45.	36.	28.	16.	10.			10.	17.	23.	43.	57.	74.	82.	
588	25.857	10.1	12.4	14.9	16.7	24.4	25.9		27.1		25.9	20.2	18.9	16.1	10.1	7.9	4.9
		51.	42.	28.	28.	13.	12.				10.	15.	25.	35.	47.	57.	64.
																3.0	
																80.	
+ 50	25.863	10.7	13.5	16.3	22.9	27.3	27.9	27.3	27.0	25.9	19.6	14.9	10.3	4.8	2.7		
		48.	41.	29.	11.	8.			8	10.	23.	33.	44.	55.	75.		
587	25.869	10.0	12.7	18.9	25.9	26.9	27.9	27.7	27.3	25.9	16.9	13.9	8.2	3.4	2.9		
		51.	40.	24.	12.	10.	8.		5.	10.	22.	31.	42.	63.	78.		
586 + 50	25.875	11.0	11.8	13.9	16.7	22.6	25.9	28.3	28.5	27.7	25.9	19.9	14.6	6.3	3.6	3.1	
		52.	48.	41.	32.	21.	16.	10.		8.	10.	19.	30.	59.	67.	80.	
586 P	25.881	8.9	12.4	14.9	19.2	25.9	27.3	28.6	25.9	17.2	14.9	7.2	5.5	3.4			
		60.	51.	38.	30.	14.	10.			10.	22.	34.	48	68.	80.		
+ 50	25.887	6.5	8.1	11.7	14.0	16.5	18.7	25.9	27.5	26.8	27.0	25.9	17.8	11.0	7.2	4.7	4.2
		73.	68.	55.	46.	44.	34.	14.			7.	10.	20.	42.	65.	79.	80.
585	25.893	10.3	12.5	14.9	17.1	19.8	23.9	25.9	26.5	27.5	26.5	25.9	17.3	11.4	7.9	5.9	4.1
		55.	49.	42.	33.	29.	15.1	12.	10.		10.	11.	24.	35.	40.	59.	68.
+ 50	25.899	5.4	8.9	15.2	19.8	22.4	25.9	27.1	26.9		27.1	25.9	20.7	13.4	8.9	5.8	3.8
		74.	63.	44.	31.	19.	13.5	10.			10.	12.	18.	33.	41.	63.	78.
584	25.905	7.7	10.1	12.2	14.9	17.0	19.8	22.8	25.9	26.7	28.1	27.5	25.9	21.6	11.9	8.2	5.5	3.9
		72.	66.	54.	46.	36.	30.	15.	12.	10		10.	12.	30.	37.	51.	65.	83.
+ 50	25.911	4.8	9.2	11.8	14.9	18.3	20.8	25.9	28.1	27.5	27.8	25.9	21.8	14.9	9.8	7.9	5.1	3.8
		77.	68.	58.	49.	35.	28.	16.	10		10	14.	21.	35.	48.	58.	66.	80.

18641

Sta.		Elevation	L.	C.	R.
596	P	25.762	7.8 11.3 16.0 18.8 22.4 25.7 28.2 28.3 28.3 25.7 17.2 11.3 7.5 5.7 66. 57. 47. 40. 28. 18. 10. 10. 17. 30. 41. 55. 66.		
	+ 50	25.768	9.7 11.2 17.4 20.5 21.8 25.7 26.8 28.7 27.7 25.7 19.4 10.2 7.3 5.0 63. 59. 43. 32. 22. 12.5 1.0. 10. 15. 36. 49. 57. 66.		
595		25.774	8.7 10.6 17.9 21.5 25.8 27.7 28.1 27.7 25.8 19.4 12.1 8.0 6.8 5.3 61. 56. 41. 21. 16. 10. 10. 13.5 32. 40. 49. 61. 67.		
	+ 50	25.780	7.2 10.5 13.0 16.8 21.1 25.8 26.3 27.1 27.8 25.8 18.6 16.2 11.6 5.3 65. 56. 52. 41. 23. 12.5 10. 10 19. 28. 38. 49. 60.		
594		25.786	13.3 13.0 15.6 17.6 22.0 25.8 26.4 27.0 27.6 25.8 20.2 17.7 12.8 6.1 60. 51. 49. 40. 21. 12.5 10 10. 18.5 27. 41. 55. 69.		
	+ 50	25.792	7.3 8.4 12.0 14.8 18.5 21.7 25.8 28.1 28.0 27.4 25.8 21.8 17.7 13.0 8.7 6.4 60. 58. 47. 41. 30. 19. 13. 1.0. 10. 14. 25. 45. 54. 70. 76.		
593		25.798	8.9 9.1 12.8 18.8 21.2 25.8 26.1 27.5 27.4 25.8 23.5 18.1 16.2 13.7 9.1 5.8 59. 56. 45. 40. 19. 10. 8. 10. 15. 24. 42. 55. 70. 75. 80.		
BM. 16.949		40' L of 593 + 30			
597 + 50		25.804	9.4 10.8 18.2 20.6 25.8 27.1 27.6 26.4 25.8 20.2 17.7 15.8 13.5 9.5 5.0 54. 48. 36. 22. 14. 10. 10. 17. 28. 38. 52. 64. 74. 78.		
592	P	25.810	5.3 9.1 13.6 17.2 21.0 25.8 27.4 28.2 27.6 25.8 22.3 17.2 14.8 11.3 4.4 64. 56. 42. 32. 29. 17. 10. 10. 15. 25. 34. 55. 67. 80.		
	+ 50	25.816	7.7 10.1 14.8 21.7 25.8 27.6 28.6 28.1 24.8 25.8 25.4 18.8 12.7 9.4 3.6 57. 51. 41. 20. 14. 10. 5. 8. 10. 20. 29. 55. 65. 73.		
591		25.822	9.4 14.8 20.8 25.8 28.0 26.5 24.1 25.8 23.8 19.3 14.8 12.4 9.0 3.1 56. 43. 24. 16. 10. 5. 10. 18. 28. 45. 54. 65. 80.		
	+ 50	25.828	9.0 14.7 19.8 20.0 25.8 27.5 27.8 26.8 24.3 24.8 18.6 16.8 9.4 5.0 2.5 59. 48. 40. 30. 18. 15. 10. 3. 10. 21. 37. 59. 79. 85.		
590		25.833	6.5 9.3 12.3 18.0 22.4 25.8 27.3 27.2 23.4 23.5 19.4 16.3 11.8 6.8 5.0 2.2 65. 56. 46. 40. 24. 19. 10. 9. 10. 17. 34. 58. 74. 80. 86.		

1865

Pile	Grade	Pile	Grade
C08	P	C09	P
+50		+50	
C02		C01	
+50		+50	
C00			

1866

S/2		Grade.													
610	P	25.595	10.2	15.2	21.9	23.2	25.6	27.1	27.4	25.6	17.1	11.2	8.9	6.6	
			-13.7	-10.4	-3.7	-2.4	0.0	+2.0	+1.8	0.0	-8.5	-14.6	-16.7	-19.0	
			78.	58.	40.	29.	19.	10.		10.	26.	52.	57.	77.	
	+50	25.601	-14.3	-9.0	-5.0	-2.1	0.0	+1.5	+2.4	0.0	(-0.8)	-7.4	-12.7	-16.7	-20.0
			53.	50.	39.	22.	17.	10.		8.0	10.2	21.	37.	57.	69.
609		25.607	15.1	16.7	21.2	25.6	27.2	27.6	27.2	25.6	17.2	8.9	6.2	5.8	
			-10.5	-6.9	-4.4	0.0	+1.6	+2.0	+1.6	0.0	-8.4	-15.7	-19.4	-20.3	
			44.	42.	30.	16.5	10.		10.	12.0	26.	46.	56.	66.	
	+50	25.613	-14.8	-7.3	-2.3	0.0	+1.7	+2.9	+0.6	0.0	-5.5	-16.4	-20.4	-21.0	
			42.	35.	20.	12.5	10.		10.	11.	21.	44.	60.	70.	
608		25.619	14.1	19.6	20.8	25.6	28.0	28.2	26.3	25.6	20.1	14.6	9.0	5.2	5.1
			-11.5	-6.0	-4.8	0.0	+2.4	+2.6	+1.7	0.0	-5.5	-11.0	-16.6	-20.3	-20
			42.	31.	25.	16.5	10.		10.	13.	20.	36.	48.	61.	2
	+50	25.625	-11.0	-7.3	-3.1	0.0	+2.4	+2.0	+1.6	0.0	-4.1	-11.0	-17.8	-21.	
			43.	34.	25.	17.0	10.		10.	13.	20.	35.	50.	58.	
607		25.631	14.5	17.3	20.7	25.6	27.5	27.8	27.1	25.6	20.0	14.6	9.9	6.1	
			-11.1	-8.3	-4.9	0.0	+1.9	+2.7	+1.5	0.0	-5.6	-11.0	-15.7	-19.5	
			38.	34.	27.	18.0	10.		10.	12.5	23.	35.	47.	59.	
														-20.6	
														71.	
25.644 T.P.	+50	25.637	-13.4	-11.0	-8.2	-2.5	0.0	+1.3	+0.0	+1.7	0.0	-6.2	-14.5	-19.0	-20.5
			46.	34.	30.	20.	13.	10.		10.	16.	25.	40	64.	69.
606	P	25.643	10.4	14.6	18.9	25.6	27.9	28.2	26.8	25.6	20.2	14.6	8.8	4.4	
			-12.2	-11.0	-7.2	0.0	+2.3	+2.6	+1.2	0.0	-5.4	-11.0	-16.8	-21.7	
			40.	38.	28.	16.	10.		10.	17.5	25.	37.	48.	69.	
	+50	25.649	-13.2	-10.8	-7.0	-1.9	0.0	+2.0	+2.6	+1.2	0.0	-5.0	-11.0	-15.1	-16.3	-20.3
			46.	33.	29.	21.	14.5	10.		10.	14.	22.	37.	47	53.	60.
															→ -21.0	75.
605		25.655	11.1	13.9	19.0	22.2	25.7	27.0	27.3	27.1	21.3	12.2	10.5	6.7	3.8	
			-12.6	-11.8	-6.7	-3.5	0.0	+1.3	+1.6	+1.4	-4.4	-13.5	-15.2	-20.0	-20.9	
			46.	36.	27.	22.	16	10.		10.	25.	42.	54.	62.	76.	
25.519 T.P.	+50	25.661	10.4	12.8	14.3	17.5	21.2	25.7	26.7	27.3	26.9	25.7	21.3	15.9	10.2	6.9	5.4
			53.	46	33.	27.	20.	11.	10.		10.	17.	24.	35.	46.	52.	60.
																	4.7
																	73.
604		25.667	8.2	10.7	12.8	14.3	15.9	20.7	25.7	27.1	26.4	25.7	20.6	14.9	9.7	8.8	4.7
			62.	55.	48.	40.	32.	25.	10.		10.	20.	26.	38.	49.	62.	80.
	+50	25.673			12.0	13.9	18.8	22.2	25.7	26.0	26.7	27.2	25.7	21.6	16.4	8.9	4.7	3.7
					54.	44.	35.	24.	14.	10.		10.	14.	23.	34.	54.	68.	80.

18671

Sta: Grade May 8/11 64.

*Note: Grades in these X Secs. are 0.5 above Profile Z. Grade to allow for Settlement.

Continued on pp 65+66

616	P	25.524		15.7	23.4	26.5	29.0	28.5	25.5	21.1	19.0	17.2		15.2	12.6	10.4
				-9.8	-7.1	0.0	+3.5	+3.0	0.0	-4.4	-6.5	-8.3		-10.3	-12.9	-15.1
				102.	82.	72.	48.	35.	26.5	10.		10.		24.4	36.	42.
	+50	25.530		20'	22.4	23.5	29.1	30.8	29.1	25.5	19.3	16.4	13.2	11.5		7.1
				-5.1	-3.1	0.0	+3.6	+5.3	+3.6	0.0	-6.2	-9.1	-11.6	-14.0		-18.4
				108.	95.	91.0	83.	60	50.	34.5	10.		10.	30.		58.
615		25.536		14.4	19.3	25.6	28.5	31.1	31.0	25.5	19.5	17.5	17.0	16.4	14.3	12.4	7.0
				-11.1	-6.2	0.0	+3.0	+5.6	+5.5	0.0	-6.0	-8.0	-8.5	-9.1	-11.2	-13.1	-18.5
				125.	112.	90.	82.	62.	51.	40.	22.	10.		10.	25.8	39.	70.
	+50	25.542															
				-8.0	-5.1	0.0	+2.6	+5.8	+4.0	0.0	-7.1	-8.6	-9.5	(-10.1)	-11.8	-14.0	-16.5
				110.	101.	89.	81.	69.	41.	33.	10.		10.	24.2	43.	62.	80.
614		25.547		12.0	15.0	19.3	25.6	30.0	29.8	25.6	21.7	19.2	17.0	16.5	14.9	9.4	8.1
				-13.5	-10.5	-6.3	0.0	+4.5	+4.3	0.0	-3.8	-6.3	-8.5	(-9.0)	-14.6	-16.1	-17.4
				125.	112.	100.	86.	62.	48.	32.6	10.		10.	23.5	39.5	57.	80.
	+50	25.553		-13.5	-11.0	-8.0	-3.5	0.0	+2.7	+5.6	+4.8	0.0	-3.8	-6.4	-7.8	(-9.6)	-13.5	14.4	-17.4
				120.	107.	97.	83.	76.	74.	50.	39.	27.	10.		10.	20.4	42.	56.	80.
613	P	25.559		11.6	14.6	17.4	21.3	25.6	31.6	31.3	25.6	22.2	20.0	17.0			14.6	9.5	7.1
				-14.0	-11.0	-8.0	-4.3	0.0	+6.0	+5.7	0.0	-3.4	-5.6	-8.5			(-11.0)	-16.1	-18.5
				121.	110.	104.	90.	74.	52.	40.	19.	10.		10.			25.5	44.	69.
	+50	25.565																	
				-12.8	-10.4	-5.4	0.0	+5.0	+3.0	0.0	-2.1	-7.4	-8.7		-10.0	-16.2	-18.8		
				100	92.	76.	56.	26.	17.		10.		10.	22.0	32.	49.	69.		
612		25.571		11.7	15.6	21.6	25.6	27.6	29.9	28.6	25.6	25.0	19.7	16.6	14.3	14.1	8.3	6.2	
				-13.9	-10.0	-4.0	0.0	+2.0	+4.3	+3.0	0.0	-0.6	-5.9	-9.0	-11.3	-15.3	-17.3	-19.4	
				96.	82.	64.	50.	35.	20.	10.	3.0		10.	22.5	34	45	65.	75.	
	+50	25.577																	
				-14.9	-10.0	-7.3	-3.3	0.0	+1.7	+2.0	+1.0	0.0	-1.2	-1.3	-8.8	-12.0	-18.2	-19.8	
				92.	75.	93.	65.	39.	35.	10.		4.	10.	11.	33.	49.	68.	78.	
611		25.583		10.6	14.5	17.6	19.9	25.6	27.8	28.3	25.7	25.6	23.1		21.1	18.6	15.2	11.6	
				-15.0	-11.1	-8.0	-5.7	0.0	+2.2	+2.7	+1.1	0.0	-2.5		-4.5	-7.0	-10.4	-14.0	
				88.5	72.	63.	54.	32.	28.	10.		5.	10.		13.8	22.	36.	69.	
																		6.4	
																		-19.2	
																		80.	
610	+50	25.589																	
				-16.6	-11.0	-3.4	0.0	+2.2	+2.4	+1.9	0.0	-4.0	-4.3	-11.1	-16.5	-18.8			
				86.	64.	52.	29.	21.	10.		4.	10.	15.4	39.	56.	78.			

1868

Sta. FINAL X SECTIONS 616+50 - 619 65

Noted Final Cross Sections, Embankment and Borrowpit, continued in Final Cross Section Book No. 3, pages 28 and 49.

619+15	½ X pat in fill	10.9	7.7	7.9	5.7	3.7	4.4	0.5	2.8	7.4	8.6	25.0	25.0	25.0	13.5	11.5	9.8
		145.	138.	134.	132.	115.	90.	70.	58.	55.	38.	10.		9.	16.	34.	50.
619	P	11.9	7.4	8.2	7.7	8.4	10.2	24.9	25.0	25.0	18.1	17.2	along slope of Road				
		145.	125.	115.	90.	45.	35.	10.			10.	24.	50.				
618+75	½ X pat in fill	24.3	24.5	24.5	25.4	26.2	25.0	26.3	25.1	22.3							
		145.	100.	45.	16.	9.		9.5	24.	50.							
618+40	½ X pat in fill	24.3	24.3	25.1	24.3	25.0	25.0	25.1	14.5	11.3	11.4						
		145.	100.	45.	21	10.		10.	27.	49.	50.						
618+40		13.1	12.2	13.3	13.3	16.4	20.1	19.7	25.0	25.0	25.0	11.8	9.8	6.1	4.6	1.6	
		145.	125	100.	81.	48.	32.	10.	10.		9.5	24.	32.	35	38.	50	
618	P	1.8	3.3	5.6	9.3	9.8	13.1	15.4	25.0	25.0	25.0	20.4	9.8	6.5	4.7	3.6	1.6
		105.	103.	83.	77	54.	38.	24.	9.5		9.5	18.	24	36.	38.	43.	50.
617+50	P	1.8	3.5	5.2	8.0	10.2	11.8	14.5	17.6	25.0	25.0	25.0	13.0	12.0	11.1		
		89.	85.	79.	76.	64.	45.	27.	20.	9.5		9.5	28.	30.	37.		
617	P	1.8	4.5	7.7	9.4	11.8	12.9	14.7	25.0	25.0	25.0	8.3	5.1	1.2			
		109.	100.	89.	68.	45.	29.	24.	10.		10.	23.	37.	49.			
616+50	P	11.8	4.7	6.4	12.9	18.2	17.5	25.0	25.0	25.0	19.0	18.8	20.7				
		120.	109.	97.	60.	43.	25.	10.		9.	20.	30	80.				

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1870

Sta. C. D. Nov 30/11

X Sections on Right for Sand Spur

67

387		(26.5	21.3	16.5 SW.						
		35.	51.	70						
388		27.6	25.1	(20.8)	19.1	16.5 SW.	0.5	-6.5		
		11.	26.	35	55.	69.5	95.	120.		
389		27.1	22.2	(20.7)	18.2	16.5 SW				
		8.	28.	35	55.	62				
390		27.5	25.2	(24.1)	22.3	19.4	16.5 SW	11.3.	-8.5	
		12.	24.	35	45.	50.	60.	80.	115.	
391		27.5	22.7	(20.9)	17.8	16.5 SW				
		8	22.	35.	45.	69.				
392		27.5	21.9	(20.9)	17.6	18.1	16.5 SW	7.5	-8.5	
		9	28	35	49.	62.	69.	90.	120.	
393		26.5	24.2	(22.2)	(7.9	16.5 SW.				
		18.	31.	35.	56.	67.5				
394		26.1	(23.6	21.4	19.1	16.5 SW.	0.0	-8.5		
		28.	35.	40.	60.	71.	95.	120.		
395		26.4	(23.3)	20.3	18.3	16.5 SW.				
		22	35.	43.	54.	66				
396		26.4	24.2	(22.7)	19.6	18.9	16.5 SW.	2.5	-7.5	
		20.	29.	35.	54.	58.	65.	90.	120.	
397		27.3	24.9	(21.4)	17.7	16.5 SW				
		10.	24.	35.	73.	75.				
398		26.7	23.9	(21.3	18.0	16.5 SW.	5.5	-7.5		
		14.	29.	35.	61.0	64.	90.	120.		

1871